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FACTORY AUTOMATION

# ELECTRONIC MULTI-MEASURING INSTRUMENT ME96SS





# ME96 Super-S Series Series Super-S Series Series Series Super-S Series Seri

Highly appreciated ME96SS Series Electronic Multi-Measuring Instruments measuring functions and network capability has been released.

# **① ME96SSHB-MB (high-performance model)**

# Major features

- [1] Supports highly accurate measurement (accuracy of current/voltage: 0.1%, active energy: class 0.5S) and high-order harmonic measurement (1<sup>st</sup> to 31<sup>st</sup>).
- [2] Incorrect wiring determination support function
- [3] Wide viewing angle LCD
- [4] Built-in logging function
- [5] Display 4 items at the sametime

# **② ME96SSRB-MB (standard model)**

# Major features

- [1] Incorrect wiring determination support function
- [2] Wide viewing angle LCD
- [3] Built-in logging function
- [4] Display 4 items at the sametime

# **③ ME96SSEB-MB (economy model)**

# Major features

- [1] Compact size
- [2] Incorrect wiring determination support function
- [3] Display 4 items at the sametime

# with enhanced measuring

have been remodeled, and ME96 Super-S Series 5000 with enhanced

# **4** Optional plug-in modules

Major features

- [1] Analog, pulse and alarm output unit (Model:ME-4210-SS96B)
- [2] CC-Link communication unit (Model:ME-0040C-SS96)
- [3] Digital input and output unit (Model:ME-0052-SS96)
- [4] Data logging unit (Model:ME-0000BU-SS96)
- [5] MODBUS TCP communication unit (Model:ME-0000MT-SS96)
- [6] MODBUS TCP communication 2-port unit (Model:ME-0040MT2-SS96)

#### Remarks

MODBUS RTU communication function provided as standard

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# **Outline and Features**

# Compact size

Realized downsizing for ME96SSEB-MB.







### **Improved Measurement Functions**

•Added measurement function, reactive energy, apparent energy, reactive power and apparent power for ME96SSEB-MB.



Model name	Transmission/Option specifications	Main measurement items
ME96SSHB-MB (High-performance model)	MODBUS RTU communication Plug-in module (options) • Analog/Pulse/Digital output/input • CC-Link communication • Digital input/output (for MODBUS RTU communication) • Backup (on SD card) • MODBUS TCP communication	A, DA, V, Hz = $\pm 0.1\%$ W, var, VA, PF = $\pm 0.2\%$ VAh = $\pm 2.0\%$ Wh = class 0.5S (IEC62053-22) varh = class 1S (IEC62053-24) Harmonics = $31^{st}$ -deg (max) Rolling demand = W, var, VA
ME96SSRB-MB (Standard model)	MODBUS RTU communication Plug-in module (options) • Analog/Pulse/Digital output/input • CC-Link communication • Digital input/output (for MODBUS RTU communication) • Backup (on SD card) • MODBUS TCP communication	A, DA, V = $\pm 0.2\%$ Hz = $\pm 0.1\%$ W, var, VA, PF = $\pm 0.5\%$ VAh = $\pm 2.0\%$ Wh = class 0.5S (IEC62053-22) varh = class 1S (IEC62053-24) Harmonics = 19 <sup>th</sup> -deg (max) Rolling demand = W, var, VA
ME96SSEB-MB (Economy model)	MODBUS RTU communication	A, DA, V = $\pm 0.5\%$ Hz = $\pm 0.2\%$ W, var, VA, PF = $\pm 0.5\%$ VAh = $\pm 2.0\%$ Wh = class 0.5S (IEC62053-22) varh = class 1S (IEC62053-24) Harmonics = Only total

#### **Optional Plug-in Modules**

Madal name	Characteristics							
Model name	Analog output	Pulse/Alarm output	Digital input	Digital output	Communication	Logging function	Used with	
ME-4210-SS96B	4	2	1	—	-	—		
ME-0040C-SS96	—	_	4	_	CC-Link	—		
ME-0052-SS96	—	—	5	2	—	—		
ME-0000BU-SS96	—	_	_	_	—	6 items	WIE9033RD-WID	
ME-0000MT-SS96	—	_	_	_	MODBUS TCP 1 port	_		
ME-0040MT2-SS96	—	—	4	—	MODBUS TCP 2 ports *1	—	ME96SSHB-MB *2	

Note 1: Optional Plug-in Module can not be used with ME96SSEB-MB. Note 2: For details of each characteristic, refer to the specifications section. \*1: 2 ports for daisy chain, one IP address.

\*2: Applicable only to firmware version 01.01 or later.

# **MODBUS RTU System**



•MODBOS ATO communication system optimizes computer monitoring operations.	
●In addition, when ME-0052-SS96 is installed, remote monitoring of digital input signals and on/o	off

control of digital output signals are possible. Therefore, no other DI/DO terminals are required.
Digital input signals can be latched for over 30 ms, and there is no need for external latch circuits.



# ME96 Super-S Series



**Features** 

ME9655-vera

# CC-Link System (With optional plug-in module (ME-0040C-SS96))



### Analog/Pulse/Alarm Output System (With optional plug-in module (ME-4210-SS96B))



# MODBUS TCP System (With optional plug-in module (ME-0000MT-SS96/ME-0040MT2-SS96 \*1))



- This is a MODBUS TCP communication unit that can be used in the Ethernet system. The number of network system selection methods is increased, and Ethernet and MODBUS RTU communication can be duplicated.
- The optional plug-in module ME-0040MT2-SS96 has 2 Ethernet ports, so straight-line topology is possible without using Ethernet SWITCH/HUB.
- The optional plug-in module ME-0040MT2-SS96 has 4 digital inputs, so remote monitoring of status signals is possible without a PLC.
- Digital input signal can be latched for over 30 ms, and there is no need for external latch circuits.
  - Abnormal Signal (Facility)
    - Abnormal Signal (Earth Leakage)
    - Abnormal Signal (Temperature)

Circuit Breaker Status Signal, etc.

- - <MODBUS TCP Communication Specifications>
    - Ethernet port : 10BASE-T/100BASE-TX
      - Maximum segment length : 100 m
      - <Optional Plug-in Module ME-0000MT-SS96>
      - Number of ports : 1
      - Digital Input : non
      - <Optional Plug-in Module ME-0040MT2-SS96 \*1>
      - Number of ports : 2
      - Digital Input : 4 points (24 V DC)

: ME-0040MT2-SS96 is only applicable to ME96SSHB-MB with firmware version 01.01 or later.

# Data Logging (Built-in logging function and optional plug-in module (ME-0000BU-SS96))

- The ME96SSHB-MB/ME96SSRB-MB has a built-in logging function stores measurement data as logging data in the internal non-volatile memory. The data to be stored as events occurred in this instrument are alarm data, the recorded time of the Max/Min value, and system log data. The stored data can be read from MODBUS RTU communication.
- Optional module ME-0000BU-SS96 can memorize the data of various quantities related to electricity measured by ME96SS-Ver.B for a certain period. Therefore, measurement data can be backup even when the MODBUS RTU communication of ME96SS-Ver.B fails. Memorized measurement data can be output to an SD memory card in CSV format. You can check the data files output to the SD memory card by Microsoft Excel.

# **ME96 Super-S Series Ver.B Features**



#### **Concurrent Display of 4 items**

The 4 measured values can be digitally confirmed on one screen.





•Concurrent Display of Each Phase Measured Values

In Display Pattern P02, measured values of each phase can be concurrently displayed.



• Cyclic Display Function

In the cyclic display function, the display screen can be changed over in every 5 seconds without [DISPLAY] button operation.

#### **Special Display Function**

Special Display by Display Pattern P00

Display can be selected as desired Display Pattern P00.



#### **Max/Min Display Function**

#### Maximum/Minimum Value Display

The maximum and minimum value of each measuring items can be displayed. Since the max/min display shows the current value as well as max/min values, the display can be used for monitoring.



#### Wide-viewing-angle (ME96SSHB-MB, ME96SSRB-MB)

As the wide-viewing-angle LCD is mounted, good visibility is obtained even when the instrument is mounted at a level lower than the eye line.

Tuno	Model nome	When viewed from the side		When viewed from the above	
туре	Model name	Up	Down	Left	Right
New type	ME96SSHB-MB ME96SSRB-MB	60°	60°	60°	60°
Conventional type	ME96SSHA-MB ME96SSRA-MB	10°	60°	60°	60°





Note: ME96SSEB-MB has the same viewing angle as the conventional type.

(Side view)

# **Impressive Monitoring Functions**

#### **Advanced Alarm Display**

- (1) A function to blink the backlight upon occurrence of an alarm is provided. The product has a setting function to blink the backlight upon occurrence of an alarm.
- (2) The automatic or manual alarm cancel mode can be selected.
- (3) Up to four points of upper and lower limits can be monitored.
- (4) The alarm output delay time (alarm mask time) can be set. Time of alarm output after the maximum value and minimum value is reached can be set. With this function, alarm output caused by frequency change at start-up current of a motor and start-up of private power generating facility can be avoided.



#### **Motor Starting Current Mask Function**

The use of the motor starting current mask function for monitoring the motor current can prevent updating of the maximum value and alarm output caused by the motor starting current.

Although the maximum value is not updated, the current value is displayed.

The starting current mask time can be set in the range from 1 s to 5 min.



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Note: Set the starting current threshold to a value lower than the lower limit value in consideration of fluctuations in load current during operation.





# **ME96 Super-S Series Ver.B Features**

# Variety of Complementary Features

#### **Password Function**

With the password function, the following items can be protected from an accidental execution.

No.	Password-protected item	No.	Password-protected item
1	Shift to the setting mode	5	Adjust the time limit of rolling demand
2	Reset the max./min. values	6	Reset the peak value of rolling demand
3	Reset the value of active energy, reactive energy and apparent energy	7	Reset the value of operating time
4	Reset the value of periodic active energy		

#### Special Primary Voltage/Current and Special Secondary Voltage are settable

#### (1) Special primary current

1 A to 30 kA



(2) Special primary voltage

60 V to 750 kV



#### (3) Special secondary voltage

3-phase 4-wire system





3-phase 3-wire, 1-phase 2-wire system [ 100 V, 110 V, 220 V ]

#### **Periodic Monitoring Function**

Power consumption can be measured in three individual intervals (e.g., peak, off- peak and shoulder, etc.).

The time segments can be switched according to the setting via communication or the digital input (DI).

(The time segments cannot be switched manually (button operation).)



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Power consumption (period 3)

Power consumption (period 1)

Power consumption (period 2)

Rolling demand is the estimated power consumption in a specified period (interval). For the block interval demand, select the duration (interval) of the block to be used for demand calculation.

1 Rolling block

Use rolling block to set the interval and sub-intervals from 1 min to 60 min (1 min interval). Rolling demand is calculated and updated at the end of each sub-interval. However, Present and predictive values are always calculated.

<Example: Interval, 15 min; Sub-interval, 5 min>



#### 2 Fixed block

Use fixed block to set the interval from 1 min to 60 min (1 min interval). Rolling demand is calculated and updated at the end of each interval. However, Present and predictive values are always calculated.

(For fixed block, use the same time limits both of interval and sub-interval).







#### **Test Function**

A test function is provided to check the wiring for communication, alarm output/digital output, analog output and pulse output without input of voltage or current.
 At the time of wiring test before shipment of the board and counter test for system validation on site, test signals can be output only by applying the auxiliary power.

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Note: Depending on the optional unit and settings, the test function may not be available (may not be displayed).

#### (1) Communications Test

- (1)Display
  - The same as for the operating mode, display patterns and other data are shown as set.
  - •Both maximum and minimum values can be displayed.
- ②Communication data
  - Communication items and value are the same one on the display. The items value that are not displayed is 0 (zero).
  - •Measuring items set for alarm will be displayed at the time of an alarm.
  - Digital input/output status can be monitored.

#### (2) Alarm/Digital Output Operation Test

1 Displays current alarm and contact status.

②Press the Reset button for 2 sec, and regardless if there is an alarm or not, the display and digital output will operate as follows.

(3) Analog Output Operation Test		Output
Display the output items.	<b>▼</b>	0%
2 Press the $(+)$ or $(-)$ button to change the	25%	25%
analog output.	50%	50%
Note: Default value is 0%	75%	75%
	100%	100%

#### (4) Pulse Output Operation Test

Press the Reset button one time to output one pulse.

Note: After reaching 50, count will return to 1.

$$0 \rightarrow 1 \rightarrow 2 \rightarrow \cdots \rightarrow 49 \rightarrow 50 \text{ [pulse]}$$
  
Note: Default value is 0 pulses.

#### **Checking Input Wiring Support Function**

#### (1) Incorrect wiring pattern display function

•Whether the voltage/current input wirings are correct or not is displayed. As for the incorrect wiring display pattern, see the instruction manual.



 Status
 Display
 Output terminal

 Alarm
 ON
 Closed

 No alarm
 OFF
 Open

Output specs 4 mA to 20 mA

> 4 mA 8 mA 12 mA

16 mA 20 mA

**ME9655** 

4600 1302 1909



5500 0

1303, 4

AVG

L-HAVG

TEST

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- Note 1: When wiring of either one of the current/voltage terminals is not correct, the incorrectly connected spot is easily identified.
- Note 2: Not all incorrect wirings can be identified. When the voltage input is incorrectly connected and the current input is also incorrectly connected, a different pattern of incorrect wiring may be displayed.

	Display	Content	Display	Content	
<b>D</b> U/	01	Low voltage	03	Voltage unbalance	
not	02	Low current	04	Incorrect connections at multiple spots	
Found	Check by using the incorrect wiring identification support display function.				

When incorrect wiring pattern cannot be detected

This function displays each phase angle (voltage phase 1 standard) of voltage and current, power values (W1, W2, W3) of each phase, voltage value & current values to support identifying incorrect wirings. By knowing abnormality in the phase angle of voltage/current and by comparing it with the normal value, you can more easily identify an incorrectly wired spot.
 Examples of screen displays of incorrect wiring identification support function.

Examples of screen displays of incorrect wining identification support function.



All products are compliant with CE Marking, UL Standards, KC mark and FCC/IC.

# Specifications

# ME96SSHB-MB

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Model name			ME96SSHB-MB					
		Phase wire syste	em	3-phase 4-wire, 3-phase 3-wire (3CT, 2CT), 1-phase 3-wire, 1-phase 2-wire (common use)				
			Current	5 A AC, 1 A AC (common use)				
	F	Rating	Voltage	3-phase 4-wire: max 277/480 V AC 3-phase 3-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC 1-phase 3-wire: max 220/440 V AC 1-phase 2-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC				
			Frequency	50/60 Hz (common use)				
		Item		Measuring Item	Class			
		Current (A)		A1, A2, A3, AN, AAVG				
		Current demand (DA)		DA1, DA2, DA3, DAN, DAAvg	±0.1%			
		Voltage (V)		V12, V23, V31, V <sub>AVG</sub> (L-L), V1N, V2N, V3N, V <sub>AVG</sub> (L-N)				
		Active power (W)		W1, W2, W3, ΣW				
		Reactive power (var)		var1, var2,var3, Σvar				
		Apparent power (VA)		VA1, VA2, VA3, ΣVA ±0.2%				
		Power factor (PF)		PF1, PF2, PF3, ΣPF				
		Frequency (Hz)		Hz	+0.1%			
		Active energy (Wh)		Imported, Exported	Class 0.5S (IEC62053-22)			
		Beactive energy (varh)		Imported lag Imported lead Exported lag Exported lead	Class 1S (IEC62053-24)			
Meas	suring	Apparent energy (VAh)	·	Imported + Exported	+2.0%			
eler	nent	Harmonic current (HI)		Total 1 <sup>st</sup> to 31 <sup>st</sup> (Odd degree only)				
		Harmonic voltage (HV)	·	Total 1 <sup>st</sup> to 31 <sup>st</sup> (Odd degree only)	±1.0%			
		Bolling demand active r	oower (DW)	Bolling block Eixing block (Select either of them according to the settings)	+0.2%			
		Bolling demand reactive	a power (Dvar)	Bolling block, Fixing block (Select either of them according to the settings.)	10.270			
		Bolling demand appare	nt nower (DVA)	Bolling block, Fixing block (Select either of them according to the settings.)	±1.0%			
		Periodic active energy (	Wh)	Periodic active energy 1 Periodic active energy 2 Periodic active energy 3	Class 0.5S			
		Operating time (b)		Operating time 1. Operating time 2	(Beference)			
		Current unbalance rate	(Auph)		(Reference)			
		Veltage unbelance rate	(Aurib)	Auno	(Reference)			
		CO equivalent	(drub)	VUID	(Reference)			
				Ny	(Relefence)			
litein				Specifications				
Measuri		easuring	Instantaneous Value	PF: Power ratio calculation: Hz: Zero-cross: HI_HV: FFT	ion,			
	N	/lethod	Demand Value	DA: Thermal type calculation DW Dyar DVA: Bolling demand calculation				
	Display t			I CD with I ED backlight				
	Number of display digits or segments			First to third line indication: 4 digits Fourth line indication: 6 digits				
Display			Digital section	A, DA, V, W, var, VA, PF, DW, Dvar, DVA: 4 digits; Hz: 3 digits; Wh, varh, VAh: 9 digits (6-digit or 12-digit is also available.); Harmonic distortion ratio/content rate: 4 digits; Harmonic RMS value: 4 digits;				
				Operating time: 6 digits; Digital input/output: I/O				
		Display update t	ime interval	0.5 s, 1 s (selectable)				
		Communication	1	MODBUS RTU communication				
		Logging r	node	Automatic overwrite update				
			Measuring data *1	Measuring data and time data are logged at the interval set at the data lo	ogging period. (15 min, 30 min,			
	1	data ton a		60 min)				
	Logging	data type	Alarm log	Time data at alarm generating/cancellation and at waiting for alarm canc	ellation			
			I ne recorded time of the	Max/Min value data and time data				
				Intervented up to deter 5 items. Data attend to the state water during the 15 items.				
			Alerm lea	The number of the set elerme	, Iotal: A maximum of 20 items			
			Alainin log	The fatal is 10 items: Current Max/Min (AVC) Line voltage Max/Min (AVC)	C) Rhass voltage Max/Min			
Built-in logging	Number	of logging items	The recorded time of the Max/Min value	(AVG), Total active power Max/Min (AVG), Total power factor Max/Min (AVG) Total reactive power Max/Min, Total apparent power Max/Min, Total harm Harmonic line voltage distortion ratio Max total, Harmonic phase voltage	G), Frequency Max/Min (AVG), onic current RMS Max value, distortion ratio Max total			
			Measuring data	30 days (Logging period: 15 minutes), 60 days (Logging period: 30 minut	es), 120 days (Logging period:			
			a data data data data data data data da	60 minutes),				
	Internal r	memory logging period	Alarm log	100 records				
			The recorded time of the	1 record for every Max/Min value factor				
		Quatara la	Max/Min value	100 magazida				
		System log	y uala	100 recolds				
		Saving loggi	ny uala					
How to acquire logging data		ogging data	Acquire the logging data via MODBUS® RTU Communication					
			uracy					
Connectable Optional Plug-in Module		g-in Module	ME-4210-5390B, ME-0040C-5390, ME-0052-5390, ME-0000BU-5390, ME-0000MT-SS96 ME-0040MT2-SS96 <sup>12</sup>					
			Use of nonvolatile memory (Items: settings, MAX/MIN value, active energy	jy, reactive energy, apparent				
Power interruption backup		Duilt in loggin :	energy, periodic active energy, rolling demand, operating time)					
Built-in logging			Each phone 0.1 VA (at 110 V AC), 0.0 VA (at 200 V AC), 0.4 VA (at 110 V	( ( ( )				
		noumption	Current circuit	Each phase: 0.1 VA (at 110 V AC), 0.2 VA (at 220 V AC), 0.4 VA (at 440 V	/ AU)			
VA Consumption Current circuit			Each phase: 0.1 VA					
	Auxiliary power circuit		Auxiliary power circuit	100 V to 240 V AC (115%) 100 V to 240 V AC (20%) 15%				
		Auxiliary powe		100 V to 240 V AC (±15%), 100 V to 240 V DC (-30% +15%)				
		Dimonoicate		0.5 kg				
		Dimensions Mounting mathe	d	96 (H) × 96 (W) × 90 (D) mm				
	_	Operating topportune	/bumidity	- Endedued	Non condensing			
		Storage temperature/	humidity	1-5°C to +55°C (Daily average temperature: 35°C or less), 0% to 85% RH, Non condensing				
Storage temperature/ humidity			nonnulty	Lo o to 170 O (Daily avoiago tomperature, 00 O 01 1033), 0 /0 10 00 /0 HI				

Note 1. The class value represents the ratio to the rated value (100%). Note 2. For measurement where the harmonic distortion ratio (content rate) is 100% or more, the class can exceed ±1.0%. Note 3. Harmonic current cannot be measured without voltage input. Note 4. Using the conventional ME-4210-SS96 (Optional Plug-in Module), the CE marking and UL standards safety certification requirements cannot be met. \*1: Integrated values (Wh, varh, and VAh) are measured values of ME96SS. They are not differential values by logging period. \*2: ME-0040MT2-SS96 is only applicable to ME96SSHB-MB with firmware version 01.01 or later.



### ME96SSRB-MB

Model name				ME96SSRB-MB				
		Phase wire syste	m	3-phase 4-wire, 3-phase 3-wire (3CT, 2CT), 1-phase 3-wire, 1-phase 2-wire (common use)				
			Current	5 A AC, 1 A AC (common use)				
	F	Rating	Voltage	3-phase 4-wire: max 277/480 V AC 3-phase 3-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC 1-phase 3-wire: max 220/440 V AC 1-phase 2-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC				
Frequency			Frequency	50/60 Hz (common use)				
		Item		Measurement items	Class			
		Current (A)		A1, A2, A3, AN, A <sub>AVG</sub>				
		Current demand (DA)		DA1, DA2, DA3, DAN, DAAVG	±0.2%			
		Voltage (V)		V12, V23, V31, V <sub>AVG</sub> (L-L), V1N, V2N, V3N, V <sub>AVG</sub> (L-N)				
		Active power (W)		W1, W2, W3, ΣW				
		Reactive power (var)		var1, var2,var3, Σvar	0.50			
		Apparent power (VA)		VA1, VA2, VA3, ΣVA	±0.5%			
		Power factor (PF)		PF1, PF2, PF3, ΣPF				
		Frequency (Hz)		Hz	+0.1%			
		Active energy (Wh)		Imported Exported	Class 0.5S (IEC62053-22)			
		Beactive energy (varh)		Imported lag Imported lead Exported lag Exported lead	Class 1S (IEC62053-24)			
Meas	suring	Apparent energy (VAh)		Imported + Exported	+2.0%			
eler	nent	Harmonic current (HI)		Total, 1st to 19st (Odd degree only)				
		Harmonic voltage (HV)		Total, $1^{st}$ to $19^{st}$ (Odd degree only)	±1.0%			
		Bolling demand active r	ower (DW)	Bolling block Eixing block (Select either of them according to the settings)	+0.5%			
		Bolling demand reactive	power (Dvar)	Bolling block, Fixing block (Select either of them according to the settings.)	20.070			
		Bolling demand appare	nt power (DVA)	Bolling block, Fixing block (Select either of them according to the settings.)	±1.0%			
		Periodic active energy (	Wh)	Periodic active energy 1 Periodic active energy 2 Periodic active energy 3	Class 0.5S			
		Operating time (b)		Operating time 1. Operating time 2	(Beference)			
		Current unbalance rate	(Auph)		(Beference)			
		Voltage unbalance rate	(Vunb)	Vunb	(Beference)			
			(vanb)	ka	(Beference)			
		1002 equivalent	·	Specifications				
		nom		A V: BMS value calculation: W var VA Wh varh VAh: Digital multiplicati	ion:			
	Me	easuring	Instantaneous Value	PF: Power ratio calculation; Hz: Zero-cross; HI, HV: FFT				
	N	lethod	Demand Value	DA: Thermal type calculation. DW. Dvar. DVA: Rolling demand calculation				
	1	Display t		I CD with I ED backlight				
	Number of display digits or segments		, , , , , , , , , , , , , , , , , , ,	First to third line indication: 4 digits. Fourth line indication: 6 digits				
Display			Digital section	A, DA, V, W, var, VA, PF, DW, Dvar, DVA: 4 digits; Hz: 3 digits; Wh, varh, VAh: 9 digits (6-digit or 12-digit is also available.); Harmonic distortion ratio/content rate: 4 digits; Harmonic RMS value: 4 digits; Operation time: 6 digits: Digital input/output: 1/0				
		Display update t	ime interval	0.5 s 1 s (selectable)				
		Communication		MODBUS BTU communication				
		Logging r	node	Automatic overwrite update				
			Measuring data *1	Measuring data and time data are logged at the interval set at the data lo 60 min)	ogging period. (15 min, 30 min,			
	Logging	data type	Alarm log	Time data at alarm generating/cancellation and at waiting for alarm cancel	ellation			
			The recorded time of the	Max/Min value data and time data				
			Max/Min value					
			Measuring data	Integrated value data: 5 items, Data other than integrated value: 15 items,	, Total: A maximum of 20 items			
			Alarm log	The number of the set alarms				
Built-in logging	Number	of logging items	The recorded time of the Max/Min value	The total is 19 items: Current Max/Min (AVG), Line voltage Max/Min (AVG (AVG), Total active power Max/Min, (AVG), Total power factor Max/Min (AVG Total reactive power Max/Min, Total apparent power Max/Min, Total harm Harmonic line voltage distortion ratio Max total, Harmonic phase voltage	A), Phase voltage Max/Min G), Frequency Max/Min (AVG), onic current RMS Max value, distortion ratio Max total			
			Measuring data	30 days (Logging period: 15 minutes), 60 days (Logging period: 30 minute 60 minutes),	es), 120 days (Logging period:			
	Internal r	memory logging period	Alarm log	100 records				
			The recorded time of the Max/Min value	1 record for every Max/Min value factor				
		System log	y udia	100 records				
		Saving loggi	ny uala	Use of nonvolatile memory				
		How to acquire I	uyyiny uala	Acquire the logging data via MODBUS <sup>-</sup> RTU Communication				
		CIUCK acc	a in Module	± 1 minute per month, typical ME-4210, SSG6B, ME-0040C-SSG6, ME-0052, SSG6, ME-0000MT SSG6, ME-0000D11, SSG6				
		g-in module	ME-4210-5596D, ME-00400-5596, ME-0052-5596, ME-0000MI-5596,					
Power interruption backup		Built-in logging	energy, periodic active energy, rolling demand, operating time)	y, reactive energy, apparent				
Duit-III logging		Voltage circuit	Lose or nonvolatile memory (Logging data, System log data)					
VA Consumption		Current circuit	Each phase 0.1 VA (at 110 V AO), 0.2 VA (at 220 V AO), 0.4 VA (at 440 V					
VA Consumption		Auxiliary power circuit	13 VA (at 110 V AC) 14 VA (at 220 V AC) 9 W (at 100 V DC)					
		Auviliary nowo	r	100  V to  240  V AC (+15%) 100 V to 240 V DC (-30% ±15%)				
		Woight		0.5 kn				
		Dimensions		96 (H) × 96 (W) × 90 (D) mm				
		Mounting metho	d	Embedded				
		Operating temperature/	/humiditv	-5°C to +55°C (Daily average temperature: 35°C or less). 0% to 85% BH	Non condensing			
		Storage temperature/	numidity	-25°C to +75°C (Daily average temperature: 35°C or less). 0% to 85% RI	H, Non condensina			
Storage temperature/ numidity					-25°C to +75°C (Daily average temperature: 35°C or less), 0% to 85% RH, Non condensing			

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Note 1. The class value represents the ratio to the rated value (100%). Note 2. For measurement where the harmonic distortion ratio (content rate) is 100% or more, the class can exceed ±1.0%. Note 3. Harmonic current cannot be measured without voltage input. Note 4. Using the conventional ME-4210-SS96 (Optional Plug-in Module), the CE marking and UL standards safety certification requirements cannot be met. \*1: Integrated values (Wh, varh, and VAh) are measured values of ME96SS. They are not differential values by logging period.

# Specifications

# ME96SSEB-MB

Model name			ME96SSEB-MB				
		Phase wire syste	em	3-phase 4-wire, 3-phase 3-wire (3CT, 2CT), 1-phase 3-wire, 1-phase 2-wire (common use)			
			Current	5 A AC, 1 A AC (common use)			
	F	Rating	Voltage	3-phase 4-wire: max 277/480 V AC 3-phase 3-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC 1-phase 3-wire: max 220/440 V AC 1-phase 2-wire: (DELTA) max 220 V AC, (STAR) max 440 V AC			
			Frequency	50/60 Hz (common use)			
Item				Measuring Item	Class		
Current (A) Current demand (DA)			A1, A2, A3, AN, AAVG				
		Current demand (DA)		DA1, DA2, DA3, DAN, DA <sub>AVG</sub>			
		Voltage (V)		V12, V23, V31, VAVG (L-L), V1N, V2N, V3N, VAVG (L-N)	10.5%		
		Active power (W)		W1, W2, W3, ΣW	±0.5 %		
		Reactive power (var)		var1, var2,var3, Σvar			
		Apparent power (VA)		VA1, VA2, VA3, ΣVA			
Mea	suring	Power factor (PF)		ΡF1, PF2, PF3, ΣΡF	±0.5%		
elei	element Frequency (Hz) Active energy (Wh)			Hz	±0.2%		
				Imported, Exported	Class 0.5S (IEC62053-22)		
Reactive energy (va		Reactive energy (varh)		Imported lag, Imported lead, Exported lag, Exported lead	Class 1S (IEC62053-24)		
		Apparent energy (VAh)		Imported + Exported	±2.0%		
		Harmonic current (HI)		Total	±2.0%		
		Harmonic voltage (HV)		Total			
	Operating time (h)			Operating time 1, Operating time 2	(Reference)		
	Me	easuring	Instantaneous value	A, V: RMS value calculation; W, var, VA, Wh, varh, VAh: Digital multiplication; PF: Power ratio calculation; Hz: Zero-cross; HI, HV: FFT			
			Demand value	DA: Thermal type calculation			
		Display t	type	LCD with LED backlight			
				First to Third line display: 4 digits, Fourth line display: 6 digits			
Display	The num The num	ber of display digits or ber of segments	Digital section	A, DA, V, W, var, VA, PF: 4 digits; Hz: 3 digits; Wh, varh, VAh: 9 digits (6-digit or 12-digit is also available.); Harmonic distortion ratio/content rate: 4 digits; Harmonic RMS value: 4 digits; Operating time: 6 digits			
		Display update t	ime interval	0.5 s, 1 s (selectable)			
		Communication	ı	MODBUS RTU communication			
	С	onnectable Optional Plug	g-in Module	Cannot connect optional module			
		Power interruption b	ackup	Use of nonvolatile memory (Items: settings, MAX/MIN value, active energy, reactive energy, apparent energy, operating time)			
		Voltage circuit		Each phase: 0.1 VA (at 110 V AC), 0.2 VA (at 220 V AC), 0.4 VA (at 440 V AC)			
VA consumption Current circuit Auxiliary power circuit			Each phase: 0.1 VA				
			4 VA (at 110 V AC), 5 VA (at 220 V AC), 3 W (at 100 V DC)				
Auxiliary power		r	100 V to 240 V AC (±15%), 100 V to 240 V DC (-30% +15%)				
Weight			0.3 kg				
Dimensions				96 (H) × 96 (W) × 36 (D) mm			
		Mounting metho	d	Embedded			
		Operating temperature/	humidity	-5°C to +55°C (Daily average temperature: 35°C or less), 0% to 85% RH, Non condensing			
Storage temperature/ humidity		numidity	-25°C to +75°C (Daily average temperature: 35°C or less), 0% to 85% RH, Non condensing				

Note 1. The class value is a percentage of rated value (100%). Note 2. For harmonics measurement where distortion ratio (content rate) is 100% or more, it can exceed ±2.0%. Note 3. When there is no voltage input, harmonic current cannot be measured.



# Standards Compliance

Elec	ctron	nagnetic Compatibility						
	Emissions							
		Padiatod Emission	EN 61326-1 / EN 55011, CISPR 11					
			FCC Part15 Subpart B Class A					
		Conducted Emission	EN 61326-1 / EN 55011, CISPR 11					
			FCC Part15 Subpart B Class A					
		Harmonics Measurement	EN 61000-3-2					
		Flicker Meter Measurement	EN 61000-3-3					
	Imn	nunity						
		Electrostatic discharge Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-2					
		Radio Frequency Electromagnetic field Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-3					
		Electrical Fast Transient/Burst Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-4					
		Surge Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-5					
		Conducted Disturbances, Induced By Radio Frequency Fields Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-6					
		Power Frequency Magnetic Field Immunity	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-8					
		Voltage Dips and Short Interruptions	EN 61326-1, EN IEC 61000-6-2 / EN 61000-4-11					

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	Europe CE, as per EN 61010-1: 2010 (3 <sup>rd</sup> Edition)						
U.S. and Canada UL Recognized Component as per UL 61010-1, IEC 61010-1							
Installation Category III							
	Measuring Category						
	Pollution Degree	2					

# MODBUS RTU Communication Specifications

Item	Specification			
Interface	RS-485 2-wire half-duplex transmission			
Protocol	RTU (binary data transfer)			
Transmission method	Asynchronous			
Connection type	Multi-point bus			
Baud rate	2400, 4800, 9600, 19200, 38400 bps			
Data bit	8			
Stop bit	1,2			
Parity	ODD, EVEN, NONE			
Address	1 to 255 (0: for broadcast mode)			
Distance	1,200 m (max)			
Max. connectable units	31 units			
Terminal Resistance	120 Ω 1/2 W			
Recommended Cable	Shielded twisted-pair AWG 24 to 14			
Frances information on data where a starts the following decomposit				

■ For more information on data, please refer to the following document.
Electronic Multi-Measuring Instrument ME series MODBUS Interface specifications...LSPM-0075

### CC-Link Communication Specifications for optional plug-in module

Item	Specification
No. of occupied stations	1 Station Remote device station
CC-Link version	CC-Link Ver 1.10 / Ver 2.00
Baud rate	10 Mbps / 5 Mbps / 2.5 Mbps / 625 kbps / 156 kbps
Transmission method	Broadcast polling system
Synchronous method	Frame synchronous system
Encoding method	NRZI
Transmission path format	Bus format (EIA RS485)
Transmission format	HDLC
Error control system	$CRC(X^{16} + X^{12} + X^5 + 1)$
Number of connectable units	42 units (max, remote device station)
Remote station numbers (station numbers)	1 to 64

For CC-Link connection cables, please use the dedicated cables. For information regarding dedicated cables, please refer to the CC-Link Partner Product Catalog published by the CC-Link Partner Association or CC-Link Partner Product Information on the CC-Link Partner Association website (http://www.cc-link.org).

Notes 1. Dedicated CC-Link cables compatible with Ver. 1.00 cannot be used in tandem with dedicated CC-Link high-performance cables compatible with Ver. 1.00. Notes 2. In the case of systems consisting of units compatible with Ver. 1.00, 1.10 or 2.00 used in tandem with Ver. 1.00 or 1.10 cables, Ver. 1.00 specifications will

apply for the maximum total cable length and length of cables between stations. Notes 3. For terminal resistance, be sure to use 110  $\Omega$  ±5% (1/2 W product) when using dedicated CC-Link cables or 130  $\Omega$  ±5% (1/2 W product) when using dedicated Notes 3. For terminal resistance, be sure to use in the ±5% (1/2 vr product) when using dedicated of Link balance of CC-Link high-performance cables.
For more information on data, please refer to the following document.
Electronic Multi-Measuring Instrument programming manual (CC-Link).......LEN080
Electronic Multi-Measuring Instrument programming manual (CC-Link)(For ver. 2 remote device station)...LEN130391

LEN080334

### Input/Output Specifications for optional plug-in module

Item		Specifications	Optional Plug-in Module type		
	Output specifications	4 mA to 20 mA			
Analog output	Load resistance	600 $\Omega$ or less	ME-4210-SS06B		
Analog output	Response time	1 second or less (Hz: 2 seconds or less, HI, HV: 5 seconds or less)	ML-4210-3350D		
	Switch type	No-voltage a-contact			
Pulse/Alarm output	Contact capacity 35 V DC, 0.1 A or less		ME-4210-SS96B		
	Pulse width	0.125 s, 0.5 s, 1.0 s			
Digital input (DI)	Contact capacity	24 V DC (19 V DC to 30 V DC), 7 mA or less	ME-4210-SS96B, ME-0040C-SS96,		
Digital Input (DI)	Signal width	30 ms or more	ME-0052-SS96, ME-0040MT2-SS96B		
Digital autout (DO)	Switch type	No-voltage a-contact	ME 0052 \$506		
Digital output (DO)	Contact capacity	35 V DC, 0.2 A or less	- ME-0052-5596		

# MODBUS TCP Communication Specifications for optional plug-in module

Item	1	Specification				
Ethernet port		10BASE-T/100BASE-TX				
Transmission method		Base band				
Maximum segment ler	ngth	100 m				
Connector applicable	for external wiring	RJ45				
	10BASE-T	Cable compliant with IEEE802.3 10BASE-T standard				
Cablo		(Unshielded twisted pair cable (UTP cable), category 3 or higher)				
Cable	100BASE-TX	Cable compliant with IEEE802.3 100BASE-TX standard				
		(Shielded twisted pair cable (STP cable), category 5 or higher)				
Protocol		MODBUS TCP (Port No.502)				
Number of simultaneously connection *1		Max. 4				
Support functions		Auto-negotiation function (automatic recognition of 10BASE-T/100BASE-TX) Auto-MDIX function (automatic recognition of straight cable/cross cable)				

\*1: Indicates the number of TCP connections that can be established simultaneously.

■ For more information on data, please refer to the following document.

Electronic Multi-Measuring Instrument ME series MODBUS Interface specifications...LSPM-0075

### Logging Specifications for optional plug-in module

Item		1	Specification				
L	ogging mode		Automatic updating by overwriting (not provided with a function to automatically start according to the start time setting)				
Kinds of logging data		Detailed data	Measurement data is stored at the specified "detailed data logging interval" (1 min, 5 min, 10 min, 15 min or 30 min). Note: The data will be output as a detailed data file. Note: As the integrated values, not the difference values, but the values displayed on the multi indicating instrument will be output.				
		1-hour data	Measurement data is stored at a one-hour interval. Note: The data will be output as a one-hour data file or a one-day data file. Note: As the integrated values, not the difference values, but the values displayed on the multi indicating instrument will be output.				
Ν	umber of logging	Detailed data	Max. 6 items				
ite	ems	1-hour data	Max. 6 items				
Internal memory Detailed data logging period		Detailed data	Detailed data logging interval: 1 min for 2 days Detailed data logging interval: 5 min for 10 days Detailed data logging interval: 10 min for 20 days Detailed data logging interval: 15 min for 30 days Detailed data logging interval: 30 min for 60 days				
		1-hour data	400 days (about 13 months)				
s	SD memory card (2 GB) logging period		10 years or more				
S	ystem log data		1200 records				
L. fc	ogging data / system rmat	log data output	CSV format (ASCII code)				
Power failure compensation		sation	Backup by built-in lithium battery Total power interruption backup time: 5 years (at daily average temperature of 35°C or less) (The life of the lithium battery is 10 years (at a daily average temperature of 35°C or less).) The battery cannot be replaced by the customer. Please consider updating the module.				
	Set (logging ID, logging items and detailed data logging interval)		Stored in FRAM (non-volatile memory) Note: The data will not be deleted even if power interruption is caused by battery voltage drop (BAT. LED is on).				
	Logging data and s	system log data	Stored in SRAM (volatile memory) Note: The data will be deleted if power interruption is caused by battery voltage drop (BAT. LED is on).				
Clock operation			Note: The clock operation will stop if power interruption is caused by battery voltage drop (BAT. LED is on). After power restoration, the clock operation will start from 00:00 on Jan. 1, 2016.				
С	lock accuracy		± 1 minute per month, typical				
0	utput data storage n	nedium	SD memory card (SD or SDHC)				
Optional accessory			SD memory card (EMU4-SD2GB) <sup>*1</sup>				

\*1: Be sure to use a SD memory card, EMU4-SD2GB, manufactured by Mitsubishi Electric Corporation. Using a SD memory card not manufactured by Mitsubishi Electric Corporation may cause a trouble such as data corruption in the card or system stop. Regarding the use of commercially available SD memory cards, access our FA website. Note that the customer is responsible for verifying safe use of those SD memory cards.



Model: EMU4-SD2GB

For more information on data, please refer to the following document. Logging specifications...LSPM-0092

# **Operating Instructions**



# Functions

#### LCD Functions



No.	Name of each part		Function						
1	LEAD status	Light up when leading r	eactive e	energy is measured					
2	LAG status	Light up when lagging r	eactive e	energy is measured					
3	Built-in logging status	Light up when the built-	in loggin	g function is operating					
4	Digital element display	Display measuring elen	nents exp	pressed in digital numbers					
5	Digital display	Display measured value	es in digit	tal numbers					
6	Unit	Display the units of mea	asured va	alues					
7	Setup status	Light up in the setting n Blink in the setting conf	node irmation	mode					
8	Test mode status	Light up in the test mod	е						
9	Clock status	Light up when the date	and time	are set					
10	Upper/lower limit alarm status	Blink when the upper/lower limit alarm is generating							
		Specification	ON	Blink	OFF				
		In part       Function         Light up when leading reactive energy is measured         Light up when lagging reactive energy is measured         atus       Light up when the built-in logging function is operating         splay       Display measuring elements expressed in digital numbers         Display measuring elements expressed in digital numbers         Light up in the setting mode         Blink in the setting confirmation mode         Light up in the test mode         Light up in the test mode         Light up in the test mode         Light up when the date and time are set         alarm status         Blink when the upper/lower limit alarm is generating         KCC-Link         Normal         CC-Link communication         MODBUS RTU communication         MODBUS TCP communication         MODBUS TCP communication         Normal         Logging function         Normal         Logging function         Normal         Light up when harmonic is displayed         Blink when Imported active energy is measured "Norm 1         *1t appears on the imported active energy display screen or cle is constant regardless of measuring input size.	CC-Link version mismatches, Hardware abnormality	Hardware abnormality					
11	Communication/	MODBUS RTU communication MODBUS TCP communication Normal Wrong address '1 abno							
	Option logging status	Logging function	Normal	Error occurrence such as setting abnormality, SD memory card error, or battery voltage drop <sup>-1</sup>	Hardware abnormality				
		*1. For details, refer to User's Manual.							
12	Harmonics status	Light up when harmonic	c is displa	ayed					
13	Metering status	Blink when Imported active energy is measured "Note 1 *It appears on the imported active energy display screen only							
Note	1. The blinking cycle is constant	nt regardless of measuri	ing input	size.					

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#### Button Functions

	Basic performance	Special performance			
Button operation	Functions	Button op	peration	Functions	
SET	Used to set items such as primary voltage and	DISPLAY	Push for 2 seconds	Used to switch display between manual display change ⇔ cyclic display change	
	current, and to choose setting items	PHASE	Push for 2 seconds	Used to switch display between manual phase change ⇔ cyclic phase change	
🛨 or 🗕	Used to switch display between setting	+ + -	Push for 2 seconds	Used to change Wh, etc. to another unit and to low order zoom display	
(MAX/MIN)	Used to switch display between max/min values and instantaneous value	+ RESET	Push for 2 seconds	Used to perform batch reset of all the max/min values	
PHASE	HASE Used to change over phase		Push for 1 seconds	Used to perform fast-forward or fast-return of numerical values in numerical value setting	
DISPLAY	Used to change over the display screen	(SET) + (RESE	T) + (PHASE)	Used to reset Wh, varh, and VAh to zero by concurrently pushing for 2 seconds	

Note. An example. For details, refer to the user's manual.

#### Set-up

For correct measurement, it is necessary to set the primary voltage/current in the set-up mode.

Enter the setting mode from the operating mode and set the necessary items. Any items not set remain in the factory default.

#### Set-up workflow (Example for ME96SSHB-MB)



 $\Rightarrow$ 

--> Select cancel

Skip remaining settings

Notes 1. Basic measurements are possible by adjusting settings in the menu 1

( area enclosed by dotted line). Notes 2. Item settings vary depending on the model.

Notes 3. Setting confirmation menu 9 (test mode) is not displayed in the setting mode.

Press for 1 s (+) or (--)

(SET)

# Basic Set-up Operations

To access the setting mode, press and hold the  $(\underline{SET})$  and  $(\underline{RESET})$  buttons down at the same time for 2 s. Press the  $(\underline{SET})$  button to display the items to be set, and the (+) and (-) buttons, set the details. To save setting for each setting menu, press the  $(\underline{SET})$  button when the End screen is displayed.

The underlined setting parameters are the initial value.

#### Set-up menu 1: Basic settings (set phase wire system, display pattern, Using VT/direct input, CT primary current, etc.)





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#### Set-up menu 2: MODBUS RTU Communication settings (When ME-0040C-SS96, ME-0000MT-SS96 and ME-0040MT2-SS96 are not installed)









# **Operating Instructions**







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#### Set-up menu 2: CC-Link Communication settings (when ME-0040C-SS96 is installed) \*Only for ME96SSHB-MB or ME96SSRB-MB, it is applicable.





Set-up menu 2: MODBUS TCP Communication settings (when ME-0000MT-SS96 <sup>1</sup> or ME-0040MT2-SS96 <sup>2</sup> is installed)

\*1 Only for ME96SSHB-MB or ME96SSRB-MB, it is applicable. \*2 Only for ME96SSHB-MB, it is applicable.



# **Operating Instructions**

#### Set-up menu 3: Display settings (active energy, harmonics measurement, etc.)



#### Set-up menu 6: Built-in logging settings

\*Only for ME96SSHB-MB, ME96SSRB-MB, it is applicable.



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# **Operating Instructions**

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3 Use this to set the cycle in which detailed data of the built-in logging item pattern "LP01" or "LP02" are logged.

 $\rightarrow$  <u>15 min</u>  $\rightarrow$  30 min  $\rightarrow$  60 min  $\rightarrow$ 

According to "3.1 Set-up Flow", either exit from setting or continue setting in any other set-up menu.





### Set-up menu 6: Analog output setting (only when ME-4210-SS96B is installed)







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# **Operating Instructions**

### Set-up menu 6: Logging setting (only when ME-0000BU-SS96 is installed)

\* Only for ME96SSHB-MB or ME96SSRB-MB, it is applicable.







# Operation (for ME96SSHB-MB)

#### Display Change

Press (DISPLAY), the measurement display switches over. When the (DISPLAY) and (-) buttons are held down for 2 seconds or more, the display will change in reverse order.

Example of display switching of measurement screen (Phase wire system: 3-phase 4-wire, Display pattern: P01)



### Changing Phases

Press (PHASE), the current phase and the voltage phase switches over.



#### Maximum/Minimum Display Values

Press the (MAX/MIN) button to change to the maximum and minimum values of the display screen. Press it again to return to the current value display screen.

#### Reset Maximum/Minimum Values

Press the RESET button for 2 s to reset the maximum/minimum values of the measurement items displayed. The maximum/minimum values will become the current values.

Press the (RESET) and (+) buttons simultaneously for 2 s to reset all

maximum/minimum values. The maximum/minimum values will become the current values.

#### Displaying Active energy/Reactive energy/Apparent energy



Change the unit (M, k, none) or increase the digits in the bottom display for power used/reactive power used/apparent power used/time-based power used to check the lower/higher-order digits. Push the + and - buttons simultaneously for 2 s to switch between screens.

Active energy (imported): Example of switching 012, 345, 678, 901, 234, 567 Wh



#### Reset Active energy/Reactive energy/Apparent energy

Press the (SET), (RESET) and (PHASE) buttons simultaneously for 2 s to reset all of the following together: active energy/reactive energy/apparent energy (this operation only works on the current value display screen).

Example of display switching between the current value display screen and MAX/MIN value display screen



MAX/MIN value display screen

#### Changing Upper/Lower Limits for Alarm Activation and Cancellation

When measurement values exceed the upper/lower limit values that have been set, an alarm activates and the screen begins to blink.

#### During Alarm Generation

Alarm condition: When a measured value exceeds the alarm value setting, the screen begins to flash and the alarm contact closes. Alarm cancelled: When the alarm is cancelled, the screen stops flashing and the alarm contact opens.



#### Alarm Cancel

The alarm can be reset automatically or manually. The alarm recovery method varies according to the reset method setting.

Alarm reset method	Cancellation method
Automatic (Auto)	The alarm resets automatically when the measurement value returns to within the upper/lower limit set value.
Manual (Hold)	The alarm resets automatically when the measurement value features to which the upper/lower limit set value. The alarm restring changes to "on hold" even after the measurement value becomes returns to within the upper/lower limit value setting. Once the value returns to within the upper/lower limit value set, perform the following alarm recovery operations. (Note: Alarm recovery operations cannot be carried out from the maximum/minimum value display screen or digital input screen.) <to alarms<br="" and="" cancel="" item="" select="">When the item that caused the alarm is displayed, press the (RESET) button to deactivate the alarm. (For items with phases such as current and voltage, it is necessary to press the (RESET) button for each phase to cancel the alarm. <to alarms="" all="" cancel="" for="" items=""></to></to>
	To cancel alarms for all items at once (batch), press the [RESET] button for 2 s when in operating mode.

#### Alarm delay Time

If an alarm delay time has been set, alarm notification begins only when the measurement value exceeds the upper/lower limit alarm value for a period longer than the alarm delay time.

#### Harmonic Display

The harmonic effective value, distortion ratio and content ratio can be displayed. To do so, first set the harmonic display (set-up menu: 3.2).





Ine: 1-phase distortion ratio (content rate) 2<sup>nd</sup> line: 2-phase distortion ratio (content rate) 3<sup>rd</sup> line: 3-phase distortion ratio (content rate) 4th line: Degree number

	Harmonic current		N-phase harr	monic current	Harmonic voltage		
Degree	RMS Distortion (content) ratio		RMS	Distortion (content) ratio	RMS	Distortion (content) ratio	
Harmonic total	0	0	0	-	0	0	
1st (fundamental)	0		0	1	0	—	
3rd, 5th, 7th, 9th, 11th, 13th, 15th, 17th, 19th, 21st, 23rd, 25th, 27th, 29th and 31st	0	0	0		0	0	

### Changing the Harmonic Degree Display

Press the  $\oplus$  or  $\bigcirc$  button to change the harmonic degree.

Phase





# Display Pattern Contents

The items set in display patterns and additional settings will be displayed as explained in the following table. •ME96SSHB-MB/ME96SSRB-MB Screen Display (3-phase 4-wire)

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Display pattern		Screen set based on display pattern									
		No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10
	1 <sup>st</sup> line	A	A	A	W	A	DA				
DO1	2 <sup>nd</sup> line	V	V	V	var	AN	DAN				
FUI	3rd line	W	var	VA	PF	Hz	V				
	4 <sup>th</sup> line	Wh	varh	VAh	Wh	Wh	Wh				
	1 <sup>st</sup> line	A1	DA1	V1N	W1	var1	VA1	PF1	A	Α	DA
	2 <sup>nd</sup> line	A2	DA2	V2N	W2	var2	VA2	PF2	Hz	AN	DAN
P02	3rd line	A3	DA3	V3N	W3	var3	VA3	PF3	W	var	VA
	4 <sup>th</sup> line	Aavg	DAavg	VLN avg	WΣ	varΣ	νας	PFΣ	Wh	varh	VAh
	1 <sup>st</sup> line	Free 1	Free 1	Free 1	Free 1						
DOO	2 <sup>nd</sup> line	Free 1	Free 1	Free 1	Free 1						
F00	3rd line	Free 1	Free 1	Free 1	Free 1						
	4 <sup>th</sup> line	Free 2	Free 2	Free 2	Free 2						

Note 1, Selectable elements for "Free 1" include A, AN, DA, DAN, V, W var, VA, PF, and Hz, Selectable elements for "Free 2" include Wh, -Wh, varh, and VAh,

									Ac	lditional s	creens (	set in set	-up menu	I Nos. 1,	3, 7 and	8)							
		No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	No.21	No.22	No.23	No.24	No.25	No.26	No.27	No.28	No.29	No.30	No.31	No.32
Display	pattern	ttern Wh varh varh Poriod Porio		Period	Period	Ro	Rolling demand		Harmonic	Harmonic		IInhalanco		DO	Onerating	Operating	00						
		Wh	(exported)	varh	imported (Lead)	exported (Lag)	(Lead)	VAh	Wh1	Wh2	Wh3	DW	Dver	DVA	Current	Current Phase N	voltage	rate	status	status	time 1	time 2	equivalent
	1 <sup>st</sup> line	-	-	-	-	-	-	-	No.1	No.2	No.3	F	Peak valu	е	1-phase value	N-phase value	1-phase value	-	-	-	-	-	-
	2 <sup>nd</sup> line											Rolling demand, active power Predictive value	Rolling demand, reactive power Predictive value	Rolling demand, apparent power Predictive value	2-phase value	-	2-phase value	Aunb	DI	DO	hour 1	hour 2	CO2
Common to P00 to P02	3 <sup>rd</sup> line	Wh	Wh exported	varh	varh imported (Lead)	varh exported (Lag)	varh exported (Lead)	VAh	Period Wh1	Period Wh2	Period Wh3	Rolling demand, active power Last value	Rolling demand, reactive power Last value	Rolling demand, apparent power Last value	3-phase value	-	3-phase value	Vunb	DO No.	DO No.	-	-	Fruivalent
	4 <sup>th</sup> line											Rolling demand, active power Present value	Rolling demand, reactive power Present value	Rolling demand, apparent power Present value	Degree number	Degree number	Degree number	"unb"	Contact status	Contact status	Operating time	Operating time	- Ligon du lo m

Note 2. The additional screen is displayed when it is set to "ON (Display)" in the setting menu.

Note 3. Wh in the table indicates wh imported. The varh indicates varh imported (Lag). Note 4. The additional screen for Wh, varh, and VAh of "P00" is not displayed unless Wh, varh, and VAh are set as the display elements.

#### ME96SSHB-MB/ME96SSRB-MB Screen Display (3-phase 3-wire, 1-phase 3-wire, 1-phase 2-wire)

Display	nattorn	Screen set based on display pattern									
Dispidy	pattern	No.1	No.2	No.3	No.4	No.5	No.6				
	1 <sup>st</sup> line	A	A	A	W	A					
P01	2 <sup>nd</sup> line	V	V	V	var	DA					
	3rd line	W	var	VA	PF	Hz					
	4 <sup>th</sup> line	Wh	varh	VAh	Wh	Wh					
	1 <sup>st</sup> line	A1	DA1	V12	W	A	Α				
DOO	2 <sup>nd</sup> line	A2	DA2	V23	var	Hz	V				
P02	3rd line	A3	DA3	V31	PF	var	VA				
	4 <sup>th</sup> line	Aavg	Davg	Vavg	Wh	varh	VAh				
	1 <sup>st</sup> line	Free 1	Free 1	Free 1	Free 1						
P00	2 <sup>nd</sup> line	Free 1	Free 1	Free 1	Free 1						
	3rd line	Free 1	Free 1	Free 1	Free 1						
	4 <sup>th</sup> line	Free 2	Free 2	Free 2	Free 2						

Note 1. For 1-phase 2-wire setting, the display pattern P02 cannot be set. Note 2. Selectable elements for Free 1 include A, DA, V, W, var, VA, PF, and Hz. Selectable elements for Free 2 include Wh, -Wh, varh, and VAh.

		Additional screens (set in set-up menu Nos. 1, 3, 7 and 8)																				
Display pattern		No.7	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	No.21	No.22	No.23	No.24	No.25	No.26	No.27
			Wh		varh	varh	varh	Period	Period	Period	Period	Ro	lling dem	and	Harmonic	Harmonic	IInhalanco	וח	DO	Operating	Operating	00
		Wh	(exported)	varh	imported (Lead)	exported (Lag)	exported (Lead)	VAh	Wh1	Wh2	Wh3	DW	Dvar	DVA	Current	voltage	rate	status	status	time 1	time 2	equivalent
	1 <sup>st</sup> line	-	-	-	-	-	-	-	No.1	No.2	No.3	F	Peak valu	e	1-phase value	1-phase value	-	-	-	-	-	-
	2 <sup>nd</sup> line											Rolling demand, active power Predictive value	Rolling demand, reactive power Predictive value	Rolling demand, apparent power Predictive value	2-phase value	3-phase value	Aunb	DI	DO	hour 1	hour 2	CO <sub>2</sub>
Common to P00 to P02	3 <sup>rd</sup> line	Wh	Wh exported	varh	varh imported (Lead)	varh exported (Lag)	varh exported (Lead)	VAh	Period Wh1	Period Wh2	Period Wh3	Rolling demand, active power Last value	Rolling demand, reactive power Last value	Rolling demand, apparent power Last value	3-phase value	-	Vunb	DO No.	DO No.	-	-	
4	4 <sup>th</sup> line											Rolling demand, active power Present value	Rolling demand, reactive power Present value	Rolling demand, apparent power Present value	Degree number	Degree number	"unb"	Contact status	Contact status	Operating time	Operating time	Equivalent

Note 3. The additional screen is displayed when it is set to "ON (Display)" in the setting menu.

Note 4. Wh in the table indicates Wh imported. The varh indicates varh imported (Lag). Note 5. The additional screen for Wh, varh, and VAh of "P00" is not displayed unless Wh, varh, and VAh are set as the display elements.

Note 6. For 1-phase 2-wire system, Unbalance rate (No.22) is not displayed

Note 7: The 2-phase value of harmonic current (No.20) is displayed only for 3-phase 3-wire system (3CT).

# **Operating Instructions**

#### ME96SSEB-MB Screen Display (3-phase 4-wire)

Display pattern			Screen set based on display pattern												
Display	pattern	No.1	No.2	No.3	No.4	No.5	No.6	No.7	No.8	No.9	No.10				
	1 <sup>st</sup> line	A	A	A	W	A	DA								
DO1	2 <sup>nd</sup> line	V	V	V	var	AN	DAN								
PUI	3rd line	W	var	VA	PF	Hz	V								
	4 <sup>th</sup> line	Wh	varh	VAh	Wh	Wh	Wh								
	1 <sup>st</sup> line	A1	DA1	V1N	W1	var1	VA1	PF1	Α	A	DA				
	2 <sup>nd</sup> line	A2	DA2	V2N	W2	var2	VA2	PF2	Hz	AN	DAN				
P02	3rd line	A3	DA3	V3N	W3	var3	VA3	PF3	W	var	VA				
	4 <sup>th</sup> line	Aavg	DAavg	VLN avg	WΣ	varΣ	νας	ΡΕΣ	Wh	varh	VAh				
	1 <sup>st</sup> line	Free 1	Free 1	Free 1	Free 1										
BOO	2 <sup>nd</sup> line	Free 1	Free 1	Free 1	Free 1										
FUU	3rd line	Free 1	Free 1	Free 1	Free 1										
	4 <sup>th</sup> line	Free 2	Free 2	Free 2	Free 2										

Note 1. Selectable elements for "Free 1" include A, AN, DA, DAN, V, W var, VA, PF, and Hz. Selectable elements for "Free 2" include Wh, -Wh, varh, and VAh.

		Additional screens (set in set-up menu Nos. 3 and 8)												
Display pattern		No.11	No.12	No.13	No.14	No.15	No.16	No.17	No.18	No.19	No.20	No.21	No.22	
		Wh	Wh (exported)	varh	varh imported (Lead)	varh exported (Lag)	varh exported (Lead)	VAh	Harmonic current	Harmonic current Phase N	Harmonic voltage	Operating time 1	Operating time 2	
Common to P00 to P02	1 <sup>st</sup> line	-	-	-	-	-	-	-	1-phase value	N-phase value	1-phase value	-	-	
	2 <sup>nd</sup> line	Wh ex		varh		warb			2-phase value	-	2-phase value	hour 1	hour 2	
	3 <sup>rd</sup> line Wh 4 <sup>th</sup> line		Wh exported		imported	exported	exported	VAh	3-phase value	-	3-phase value	-	-	
				(Leau)	(Lag)	(Lead)		Degree number	Degree number	Degree number	Operating time	Operating time		

Note 2. The additional screen is displayed when it is set to "ON (Display)" in the setting menu.

Note 3. Wh in the table indicates Wh imported. The varh indicates varh imported (Lag). Note 4. The additional screen for Wh, varh, and VAh of "P00" is not displayed unless Wh, varh, and VAh are set as the display elements.

#### •ME96SSEB-MB Screen Display (3-phase 3-wire, 1-phase 3-wire, 1-phase 2-wire)

Display pattern			Screen s	et based	on displa	iy pallern	
Display	pattern	No.1	No.2	No.3	No.4	No.5	No.6
P01	1 <sup>st</sup> line	A	A	A	W	A	
	2 <sup>nd</sup> line	V	V	V	var	DA	
	3rd line	W	var	VA	PF	Hz	
	4 <sup>th</sup> line	Wh	varh	VAh	Wh	Wh	
	1 <sup>st</sup> line	A1	DA1	V12	W	Α	Α
D00	2 <sup>nd</sup> line	A2	DA2	V23	var	Hz	V
FUZ	3rd line	A3	DA3	V31	PF	var	VA
	4 <sup>th</sup> line	Aavg	DAavg	Vavg	Wh	varh	VAh
	1 <sup>st</sup> line	Free 1	Free 1	Free 1	Free 1		
P00	2 <sup>nd</sup> line	Free 1	Free 1	Free 1	Free 1		
	3rd line	Free 1	Free 1	Free 1	Free 1		
	4 <sup>th</sup> line	Free 2	Free 2	Free 2	Free 2		

Note 1. In the case of 1-phase 2-wire setting, the display pattern P02 cannot be set. Note 2. Selectable elements for Free 1 include A, DA, V, W, var, VA, PF, and Hz. Selectable elements for Free 2 include Wh, -Wh, varh, and VAh.

Display pattern			Additional screens (set in set-up menu Nos. 3 and 8)												
		No.7	No.8	No.9	No.10	No.11	No.12	No.13	No.14	No.15	No.16	No.17			
		Wh	Wh (exported)	varh	varh imported (Lead)	varh exported (Lag)	varh exported (Lead)	VAh	Harmonic current	Harmonic voltage	Operating time 1	Operating time 2			
Common to P00 to P02	1 <sup>st</sup> line	-	-	-	-	-	-	-	1-phase value	1-phase value	-	-			
	2 <sup>nd</sup> line								2-phase value	3-phase value	hour 1	hour 2			
	3 <sup>rd</sup> line	Wh exported	varh	varn imported	varn exported	exported	VAh	3-phase value	-	-	-				
	4 <sup>th</sup> line				(Leau)	(Lag)	(Leau)		Degree number	Degree number	Operating time	Operating time			

Note 3. The additional screen is displayed when it is set to "ON (Display)" in the setting menu.

Note 4. Wh in the table indicates Wh imported. The varh indicates varh imported (Lag). Note 5. The additional screen for Wh, varh, and VAh of "P00" is not displayed unless Wh, varh, and VAh are set as the display elements. Note 6: The 2-phase value of harmonic current (No.14) is displayed only for 3-phase 3-wire system (3CT).

#### Phase/Wire Displays

The phase/wire system will be displayed as shown in the following table and is common for all models.

Top phase disp	Phase/Wire settings lay	1P2W	1P3W(1N2)	1P3W(1N3)	3P3W
	1	None	1	1	1
current	2	None	N	N	2
	3	None	2	3	3
	12	None	1N	1N	12
Voltage	23	None	2N	3N	23
	31	None	12	13	31



# Memo

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# **External Dimensions, Installation and Connections**

### **Dimensions**



ME96SSEB-MB



Optional Plug-in Module : ME-4210-SS96B, ME-0040C-SS96, ME-0052-SS96



Optional Plug-in Module : <u>ME-0000BU-SS96</u>



Optional Plug-in Module : ME-0000MT-SS96







# Mounting

#### **1** Dimension of panel

Panel hole dimensions are as shown in the following figure. It can be attached to a panel with thickness of 1.6 to 4.0 mm.



#### 2 View Angle

The contrast of the display changes at view angle. Mount it at the position that is easy to see.

#### ME96SSEB-MB Viewing angle 10° 60 60. 60° (side view) (overhead view)



**3** Attachment

For attachment of the basic device into the panel hole, attach according to the following procedure. ①The attachment lug is installed in two holes 2 Tighten the screws of the lug,

of the top and bottom of the basic device.





To prevent damage to the panel and screws, do not overtighten the screws. Note The recommended torque for this product is 0.3 N·m to 0.5 N·m (about half the normal torque). Tighten the two screws evenly.

Main unit mounting screws: M3

#### **4** Installing Optional Plug-in Module

When installing the optional plug-in module onto the basic device, install according to the following procedure

①Remove the optional cover.



2 Attach the optional unit to the main unit.



Fit the protruding part of the optional unit into the slot in the main unit.



### Wiring

#### **1** Applicable Cable Size

Product type	Screw type	Wire for use Ti								
ME96SSHB-MB, ME96SSRB-MB	МЗ	For crimped terminal: AWG 26 to 14 (Connection up to two wires)	0.8 N⋅m							
ME96SSEB-MB		Appropriate crimped terminal: One for M3 screw 6.0 mm or less in outer diameter.	0.5 N⋅m							
Optional plug-in module: ME-4210-SS96B, ME0052-SS96, ME-0040C-SS96	Non-screw	Single wire, Stranded wire: AWG 24 to 14 (For stranded wire, possible in combination with rod terminals) The peeling size of the cable sheath: 10 to 11 mm *1: If complying with UL standards, follow the conditions listed below. • Single wire, Stranded wire: AWG 24 to 18 • Rod terminals are not available. *2: When using a rod terminal with insertion points of two wires, select the terminal that insertion hole depth of the terminal block is 12 to 13 mm as a guide.	_							
Optional plug-in module: ME-0040MT2-SS96	Non-screw	Single wire, Stranded wire: AWG 24 to 16 (For stranded wire, possible in combination with rod terminals) The peeling size of the cable sheath: 8 mm Rod terminals (without plastic sleeve): 0.2 to 1.5 mm <sup>2</sup> Rod terminals (with plastic sleeve): 0.2 to 0.75 mm <sup>2</sup>	_							

#### 2 Wiring

#### Optional Plug-in Module Terminal

Optional Plug-in Module Terminal ①Peel the wire tip or pressure-weld a rod terminal.

2)Insert the wire with the lever pressed and then release the lever to connect.

#### 3 Confirmations

After wiring, make sure the following:

- □ All wiring is connected
- There is no misitake in wiring



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	Protective sheet
	There is a protective sheet covering the LCD screen to prevent scratching during panel installation. Please remove the sheet before using the meter. When removing the sheet, the LCD may turn on due to the static electricity generated. This is not abnormal; the LCD will turn off after a short time.
Note	Installation position
	If installing the unit at the panel edge, choose an installation position where there is sufficient space for wiring work.
	Optional unit
	Turn the auxiliary power supply off before attaching the optional unit. If attached with the power on, the main unit will not recognize the optional unit. To remedy this, turn off/restart the auxiliary power supply or execute the "instrument restart" operation.

#### **Wiring Diagrams**













#### Wiring Diagrams (Continued)



#### ME96SSRB-MB ME96SSHB-MB ME-4210-SS96B +C1





#### Optional Plug-in Module: ME-0052-SS96



#### Optional Plug-in Module: ME-0000MT-SS96



#### Optional Plug-in Module: ME-0000BU-SS96



#### **Optional Plug-in Module:** ME-0040MT2-SS96





#### Wiring Diagrams (Continued)

	<ol> <li>Pulse output, alarm output, and digital input/output cables must not be in close proximity or bundled with power cables or high-voltage cables. When laid parallel, separate by the distance shown in the following table.</li> </ol>
	Condition Distance
	Power lines of 600 V AC or less 300 mm or more
	Other power lines 600 mm or more
	<ol> <li>Analog output cables must not be in close proximity or bundled with other power cables or input cables (e.g., VT, CT, auxiliary power supply). In addition, to prevent noise, surge and induction, use shielded cables or twisted-pair cables. Make sure that cables are as short as possible.</li> <li>There is no insulation between the MODBUS RTU communication portion and the optional module ME-4210-SS96B, ME-0040C-SS96.</li> </ol>
	4. Use only designated cables when connecting the CC-Link (see communication specifications). CC-Link dedicated cables cannot be used at the same time as CC-Link dedicated high-performance cables. Normal data transmission cannot be guaranteed if used at the same time. The terminal resistance value varies depending on the type of dedicated cable.
	<ol> <li>For cables connecting the CC-Link, connect shielded cables to "SLD" and ground "FG" cables. "SLD" and "FG" cables are connected inside the unit.</li> </ol>
Note	<ol> <li>CC-Link communication lines are small signal circuits: separate from strong electrical circuits by a distance of 10 cm or more, or 30 cm or more if laid in parallel over a long distance. Ground the terminal before use.</li> </ol>
	7. For CC-Link communication, always use dedicated lines and comply with conditions for total wiring distance, distance between stations and terminal resistance values according to the communication speed. Not doing so may prevent normal communication (see the CC-Link Master Unit Operations Manual for information on dedicated lines and wiring conditions).
	<ol> <li>The terminal resistance supplied with the CC-Link Master Unit must always be used for the units at both ends of the CC-Link communication line. If the meter is at the end of the CC-Link communication line, connect it between the DA and DB terminals.</li> <li>Communication errors may occur under the influence of high-frequency noise from other devices in the installation environment during high-speed communication (100 Mbps) via 100BASE-TX connection of MODBUS TCP.</li> </ol>
	Measures to be taken when the network system is configured to avoid the influence of high-frequency noise are shown below. (1) Wiring connection • When laving a twisted pair cable, do not hundle the cable together with any main circuit line or power line or lavit close to such a line
	<ul> <li>Keep the twisted pair cables in the duct.</li> <li>(2) Communication method</li> <li>Increase the number of communication retries as needed.</li> <li>Replace the hub to be used for connection with that for 10 Mbps, and communicate at a data transmission speed of 10 Mbps.</li> <li>10. Do not connect any terminal or RJ45 connector in the live state.</li> </ul>
	11. Do not insert or remove the SD memory card in the live state.

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#### Connection Phase/Wire Rated voltage Figure 3-phase 4-wire Star Max. 277 V AC (L-N)/480 V AC (L-L) Figure 1 Delta Max. 220 V AC (L-L) Figure 2 3-phase 3-wire Max. 440 V AC (L-L) Star Figure 3 Figure 4 1-phase 3-wire Max. 220 V AC (L-N)/440 V AC (L-L) -Delta Max. 220 V AC (L-L) Figure 5 1-phase 2-wire\* Max. 440 V AC (L-L) Star Figure 6

#### Rated voltage for each phase/wire system

\* The circuit derived from the 3-phase 3-wire delta connection and the 1-phase 2-wire transformer circuit have the maximum rating of 220 V AC. The circuits derived from the 3-phase 4-wire and 3-phase 3-wire star connections and 1-phase 3-wire connection have the maximum rating of 440 V AC.



Fig. 1. 3-phase 4-wire (star)





Fig. 3. 3-phase 3-wire (star)









Fig. 4. 1-phase 3-wire

Fig. 5. 1-phase 2-wire (delta)

Fig. 6. 1-phase 2-wire (star)

# **Related Products**

# EcoWebServerIII

Mitsubishi Electric Energy-saving Data Collection Server From visualization to publication of energy data

#### Simple Set-up

When using the set-up software supplied, power management meters connected to CC-Link and measurement data can be set by mouse and keyboard operations.

#### **Display Measurement Data as Graphs on a Web Browser**

The main unit has a built-in web server that allows anyone, anywhere to understand the amount of energy being used in real time via computer without requiring additional software, thereby supporting early detection of energy waste.

# Automatic Transmission of Data Collected, Mail Notifications and Digital Output

Users are notified of changes in energy, facilities, etc. via e-mail and alarms. Energy management targets and status monitoring of entire factories and buildings help ensure that problems onsite are detected without fail.

 $\bigcirc \mathsf{PLC}$  data can also be sent to EcoWebServerIII by Ethernet.

◇Data of various sites can be browsed in the head office by utilizing the internal network.

# EcoMonitorPlus

Energy measuring units helpful in adding units for increased number of measuring circuits and preventive maintenance by simultaneous measurement of electric power and leakage

#### Phased expansion of energy-saving system

At first, energy-saving measurement can be started on a small scale from a desired place.

The system can be configured by adding units according to the increase of measuring circuits.

#### Leakage current monitoring

Lineup of basic units for monitoring insulation

Helpful in early detection of equipment problems through accurate leakage current trend monitoring by lor method

\* lor: Leakage current caused by insulation deterioration (leakage current of resistive component)

# Simple management of measurement data with prepared forms and graphs

Data can be collected by the logging unit (SD memory card) without the host application on the PC, etc.

Forms and graphs can be easily prepared by using the spreadsheet software (logging unit utility\*).

\* The logging unit utility can be downloaded for free from Mitsubishi Electric FA site.

#### Realize energy saving with a unit equipped with "control" function

Equipped with functions interlocked with measurement value to control equipment automatically.

Start control just by setting simple control parameters with a personal computer.

Combine units according to various data, including energy, pressure, flow rate, and temperature.

Collection, storage, visualization, publication on the web, analysis and monitoring All can be realized by one server.



# Energy Measuring Unit





# EcoMonitorLight

Energy measuring unit with integrated display for easily realizing the visualization of energy

A three-model line-up: a 3-phase 3-wire system designed for users wanting simple power measurements at low cost; and a 3-phase 4-wire system designed for users looking for basic power measurements plus something extra (harmonic measurements, alarm monitoring, etc.).

#### **Simple Measurements**

The built-in LCD enables easy setting, measurement and display of power used for energy management.

#### MODBUS RTU (RS-485) Communication as Standard Equipment

Meters come with MODBUS RTU communication as standard equipment, allowing the device to be used as a PLC system, other high-order system, display device (GOT), etc.

# Logging/Communication Units for Expanded Measurement Applications

The product line-up also includes logging units/communication units (CC-Link communication unit) that can be incorporated as add-on options, enabling installations that best match to the customer's usage environment.

■Logging unit: Data measured by the main unit (current, voltage, power, etc.) can be output to an SD memory card in CSV file format, realizing simple data management.

#### **Highly Accurate Measurements and Support Functions**

Customer activities are supported through functions such as 250  $\mu s$  high-precision (short-cycle load) measurement, operating time measurement, wiring error detection and test output.

# Energy Measuring Unit

**ME9655** 

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# **Safety Precautions**

To ensure safety, read the following items carefully before use and always comply with procedures during use. Special attention should be given to items enclosed in a box and marked "Caution." Additionally, please carefully read the operations manual supplied with the product before use, and ensure that the manual read by the end user as well.

#### **1** Usage Environment and Conditions

- Do not use these products under any of the following conditions. Doing so may cause erroneous operation and/or reduced service life.
  - Ambient temperature is outside the range of -5°C to +55°C
     Daily average temperature over 35°C
     Relative humidity over 85% RH non-condensing
     Product is subject to excessive vibration or shock
     Product is in direct contact with rain, water drops or soulight
     Altitude is above 2,000 m
     Excessive external noise
     Pollution level is 2 or higher
     Transient overvoltage is 4,000 V or higher
     Presence of metal fragments or conducting substances

#### **2** Installation

Please note the following items regarding installation. To ensure safety, installation is to be performed by a qualified technical electrician. • Affix the main unit to the panel before use • The LCD display contrast changes depending on the angle from which it is viewed. Install it in a position that ensures a suitable angle of view. • Tighten screws using a torque of approx. 0.3-0.5 N·m • To prevent damage to the LCD, take care not to subject the LCD/front of the main unit to shock/impact.

#### Auxiliary power supply and measuring elements

Auxiliary power supply		100 V AC to 240 V AC (±15%) 50 Hz to 60 Hz 100 V DC to 240 V DC (-30%, +15%)		MA, MB terminal
Measuring element	Voltage	3-phase 4-wire: max 277/480 V AC 3-phase 3-wire: (DELTA) max 220 V AC (STAR) max 440 V AC 1-phase 3-wire: max 220/440 V AC 1-phase 2-wire: (DELTA) max 220 V AC (STAR) max 440 V AC	CategoryIII	P1, P2, P3, PN terminals
	Current	5 A (CT secondary side), max 30 V AC	Category III	+C1, C1, +C2, C2, +C3, C3 terminals
	Frequency	50 Hz or 60 Hz		

#### Others

MODBUS RTU communication	T/R+, T/R-, SG terminals	
MODBUS TCP communication	Ethernet terminal	
CC-Link communication	DA, DB, DG terminals	
Digital input	DI1, DI2, DI3, DI4, DI COM, DI+, DI-, DI1+, DI1-, DI2+, DI2-, DI3+, DI3-, DI4+, DI4-, DI5+, DI5- terminals	max 35 V DC
Digital output	DO1+, DO1-, DO2+, DO2- terminals	
Analog output	CH1+, CH1-, CH2+, CH2-, CH3+, CH3-, CH4+, CH4- terminals	
Pulse/Alarm output	C1A/A1, C1B/COM1, C2A/A2, C2B/COM2 terminals	

#### **3** Connections

See pages 30-32 of this catalog for information regarding connections.

	<ul> <li>To ensure safety, connections are to be performed by an electrical engineer qualified in wiring.</li> <li>Check connection diagrams carefully before performing connections. Incorrect connections may result in VT burnout caused by a VT secondary-side short circuit or high voltage on the CT secondary side, which may lead to device malfunction, fire or electrical shock.</li> <li>Do not work with live wires; there is a risk of electric shock and exposure to high voltage due to short-circuiting or CT secondary side opening, which may lead to malfunction, fire or electrical shock.</li> <li>Use electrical wire sizes compatible with the rated current. Use of unsuitable sizes may cause heat generation, which may lead to a fire.</li> <li>After performing connections, check that no connections have been missed. Missed connections may result in erroneous operation or high voltage on the CT secondary side, which may lead to a fire or electrical shock.</li> <li>After performing connections are result in erroneous operation or high voltage on the CT secondary side, which may lead to a fire or electrical shock.</li> <li>After performing connections are result in erroneous operation or high voltage on the CT secondary side, which may lead to a fire or electrical shock.</li> <li>At the time of wiring, an electric wire can be broken by pulling with strong power. (The load of pulling is less than 3-9 N)</li> </ul>
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#### **4** Preparations Before Use

 Before use, perform settings such as the VT primary voltage, CT primary current, power scale and demand time limit in accordance with the operations manual supplied with the product; setting errors may cause incorrect measurement/operation.

#### **5 Usage Procedures**

- Use the products within the rated range. Using the products outside the rated range may cause erroneous operation or product malfunction.
- Do not use the products for special applications such as nuclear power, aerospace or medical devices/systems.

• Do not make any modifications to the products. Using products after modification may cause a malfunction, electrical shock or fire.



#### 6 Repairing at Time of Malfunction/Error

• If a product listed in this catalog malfunctions, read the troubleshooting section of the operations manual (detailed version) and confirm the symptoms. If the problem is not listed, please contact a Mitsubishi Electric representative.

ME9655-

#### 7 Maintenance/Inspections

- Wipe away any dust/dirt on the surface of the product with a soft cloth.
- Do not leave chemical cloths, etc. in contact with the product for long periods, and avoid the use of benzene, thinner, etc. when wiping the product surface. Doing so may cause deformation or cause the coating to peel away.
- To ensure correct use for the full service life of the product, please perform the following inspections:

①Check for damage to the product ②Check for display malfunctions (e.g., does not respond to input) ③Check for loose installation or terminal block wire connections (check regularly once every six months/year) always making sure that power has been turned off beforehand) ④Check for unusual smell, noise or rise in temperature.

#### 8 Storage

Do not store the product for long periods of time under any of the following conditions. Doing so may lead to a malfunction or reduced service life. • Ambient temperature outside the range of -25°C to +75°C • Daily average temperature of more than 35°C • Relative humidity exceeding 85% RH or condensation present • Excessive dust, corrosive gas, salt or oil/smoke present • Product is subject to excessive vibration or shock • Product is in direct contact with rain, water drops or sunlight

#### 9 Disposal

- These products do not use nickel-cadmium batteries. Dispose of them as industrial waste.
- The optional module ME-0000BU-SS96 contains a lithium battery. Dispose of the battery in accordance with the municipal regulations.
- In EU member states, there is a separate collection system for used batteries. Dispose of the batteries properly at the local collection/recycling center. The following symbol is printed on the package of ME-0000BU-SS96.



This symbol is applicable only in EU member states. The symbol is designated in Article 20 "Information for end-users" and Annex II of the new European Directive on batteries (2006/66/EC).

The above symbol indicates that the batteries must be disposed of after separation from general waste.



• The optional module ME-0000BU-SS96 contains a lithium battery. Therefore, if it is thrown into the fire, it may generate heat, rupture or ignite. Dispose of the lithium battery in accordance with the municipal regulations.

#### **10 Warranty Period**

The warranty period for the products in this catalog expires one year from the date of purchase or one year and six months after the date of manufacture; whichever is earliest. Even during the warranty period, the warranty shall not apply to malfunctions attributable to intentional negligence or erroneous use by the customer, and the fee for any repair required as the result of such negligence shall be the liability of the customer.

Mitsubishi Electric shall not be liable for: Damage that cannot be attributed to Mitsubishi Electric; lost opportunity or earnings resulting from failure of a Mitsubishi Electric product; damage, secondary damage or compensation for an accident resulting from special circumstances regardless of whether or not the circumstances were foreseeable; or damage to products or other services for products not manufactured by Mitsubishi Electric.

#### **11 Product Exchange Cycle**

Although it depends on usage conditions, as a guide, it is recommended that the products listed in this catalog be renewed after 10 years.

#### Trademarks

- MODBUS is a trademark of Schneider Electric USA Inc.
- Ethernet is a trademark of Fuji Xerox Co., Ltd.
- Microsoft, Excel is the registered trademark of the U.S. Microsoft Corporation in the U.S. and other countries.
- Other company and product names herein are trademarks or registered trademarks of their respective owners.
- In the text, trademark symbols such as "TM" and "®" may not be written.





# ELECTRONIC MULTI-MEASURING INSTRUMENT

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Lithuania Malaysia Maita Maroco Myanmar Nepal Netherlands Notharenca Norway	Rifas UAB Mitric Sah Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. WattXVolt House Intech Marine & Offshore B.V. Mitsubish Electric Automation, Inc. Scanelec AS	Tinklu 29A, LT-5300 Panevezys, Lihtuania     Tinklu 29A, LT-5300 Panevezys, Lihtuania     No. 5 Jalan Pemberita U149, Iramaya Industrial Park, Glermarie 40150 Shah Alam, Selangor, Malaysia     60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia     99 PAOLA HILL, PAOLA PLA T72, Matta     KM 7.2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casabianca, Maroco     NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar     KHA 2-65, NoH House Dilliazant Post Box-2180, Kathmandu, Mepal     Slusijasciji, 155, NL-3007 AG Rotterdam, Netherlands     Slou Corporate Woods Parkway, Vernon Hills, L60061 USA     Leirvikasen 438, NO-5179 Godvik, Norway     Bivd, Miouel de Carvante Savedra 301, Torre Norte Piso 5. Col. Armoliación Granada.	+370 (0)45-582-728 +603-569-3748 +603-569-3748 +356 (0)21-697-816 +326 (0)21-697-816 +356 (0)1-202589 +85-(0)1-202589 +877-1-441130 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000
Lithuania Malaysia Marta Marcoo Myanmar Nepal Netherlands North America Norway Mexico	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MAROCC         Peace Nyammar Electric Co.,Ltd.         WattSvöl House         Imtech Marine & Oftshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Temasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan US, 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA T/02P, Malta           199 PAOLA HLL, PAOLA PLA T/02P, Malta           10012 JUL 2012 ELE ROUTE DE RABAT AIN SEBAA, 20600 Casablanco, Manoco           N0137/139 Botahaung Pagada Boad, Botahaung Tourn Shipi 11161, Yangon, Myanmar           KHA 7, 265, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal           Siuliajesciji I, Sto. I-3087 A, Ro Rotterdam, Natheriardar           S00 Carporate Woodb Parkway, Vernon Hills, IL 60061 USA           Lakrikanan 438, NO-5179 Gotivin, Son Norte Pilos 5, Col. Ampliación Granada,           Minuel Heriden C. Catada de Medicon, C21 LTGN, Mexico,	4370 (0)45-582-728           +603-5550-3748           +603-653-1280           +403-653-1280           +356 (0)21-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +331 (0)10-487-19 11           +847-478-2100           +47 (0)55-500000           +52-55-3067-7511
Lithuania Malaysia Maita Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHELE MAROC         Peace Myamar Electric Co.,Ltd.         Watt&Voit House         Intrach Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch	Tinklu 29A, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Pemberita U1/49, Temasya Industrial Park, Glenmarie 40150 Shah Alam, Selangor, Malaysia           80, Jalan USJ 10/1B, LEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA 1702, Matta           KM 7.2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar           KH 2-65, Okh House Dillibazan Post Bos.2160, Kathmandu, Nepal           Slusigesdijk 155, NL-3087 AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasen 43B, NO-5179 Godvik, Norway           Bivd, Mguel de Cevrantes Saavedo, OT, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hiddigo, Cudad de Mexico, OP 11520, México	+370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +536 (0)21-607-816           +326 (0)21-607-816           +3212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (0)55-506000           +52-55-3067-7511
Lithuania Malaysia Malta Maroco Myanmar Nepal Netherlands Norway Metherlands Norway Mexico Middle East	Rifas UAB Mithic Safi Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Initech Marine & Offshore B.V. Mitsubish Electric Automation, Inc. Scanelec AS Mitsubish Electric Automation, Inc. Mexico Branch Comptoir of Electricite Generale-International-S.A.L.	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public JUPS, Imanaya Industrial Park, Glermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan US, 10/16, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           69, PAILA HUL, PAOLA PUA, TORZ, Malta           69 PAOLA HUL, PAOLA PUA, TORZ, Malta           60 PAOLA HUL, PAOLA PUA, TORZ, Malta           61 PUA LER COUTE DE RABAT, AIN SEBAA, 20600 Casablanca, Maroco           NO137138 Botahang Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar           KH1 2-65, KOH House Dillibazzin Post Bosz (2160), Katitmandu, Mepal           Slueigedijk 155, NL-3007 AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hill, Le 60061 USA           Leirvikasen 43B, NO-5179 Godvik, Norway           Bivd. Miguel de Cavarite Saavedra 301, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hidaigo, Ciudad de Maxico, CP 11520, México           Cebaoc Centre - Block A Autostrade Dora PC, Dox 11-1314 Beirut - Lebanon	+370 (0)45-582-728 +603-5569-3748 +603-5669-3748 +603-5669-1697-161 +212 661 45 15 96 +95-(0)1-202589 +95-(0)1-202589 +977-14411330 +977-14411330 +31 (0)10-487-19 11 +477-492-100 +477-495-505000 +52-55-3067-7511 +961-1-240430
Lithuania Malaysia Marta Marcoo Myaomar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         AL-PATRADE LTD         SCHIELE MAROC         Peace Myammar Electric Co.Ltd.         Watt&Voit House         Intrach Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.	Tinklu 29A, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Public 104, Pimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           100 Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           100 JAL Strand B, Stanger A, Stanger A, Stanger A, Stanger A, Stanger A, Manger A, Stanger A,	+370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5663-1280           +356 (0)21-1697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (0)55-5650000           +52-55-3067-7511           +961-1-240430
Lithuania Malaysia Maita Maroco Myanmar Nepal Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALPATRADE LTD         ALPATRADE LTD         SCHIELE MAROC         Peace Myanmar Electric Co.,Ltd.         WattXVin House         Intech Marine & Offshore B.V.         Mitsubish Telectric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.	Tinklu 29A, LT-5300 Panevezys, Lithuania     Tinklu 29A, LT-5300 Panevezys, Lithuania     No. 5 Jalan Pemberita U1/49, Iromays Industrial Park, Glermarie 40150 Shah Alam,Selangor, Malaysia     60, Jalan USJ 10/1B, UEP Subang Jaya,47620 Selangor Darul Ehsan,Malaysia     99 PAOLA HILL, PAOLA PLA 1702, Malta     KM 7, 2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casabianca, Maroco     NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161,Yangon,Myanmar     KHA 2-65, NoH House Dillibazant Post Box 2169 Kathmandu, Mepal     Sluisjescijk 155, NL-3087 AG Rotterdam, Netherlands     S00 Corporate Woods Parkway, Vernon Hills, L60061 USA     Leirvikasen 438, NO-5179 Godvik, Norway     Bivd. Miguel 4 Gervante Savedra 301, Tore Norte Piso 5, Col. Ampliación Granada,     Miguel Hidalgo, Ciudad de México, CP 11520, México     Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon     2-P GULEEREG IL, LAMORE - 5400. PAKISTAN	+370 (0)45-582-728 +603-5669-3748 +603-5669-3748 +356 (0)21-697-816 +356 (0)21-697-816 +35-(0)1-202588 +377-1-4411330 +377-1-4411330 +31 (0)10-487-1911 +477-478-2100 +477 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575322, 5753373
Lithuania Malaysia Marta Marta Martoco Myanmar Nepal Netherlands Norway Mexico Mexico Middle East Arab Countries & Cyprus Pakistan Pakistan	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MARDOC         Peace Myammar Electric Co.,Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubshi Electric Automation, Inc.         Scanelec AS         Mitsubshi Electric Automation, Inc. Mexico Branch         Comptoir of Electricite Generale-International-S.A.L.         Prince Electric Co.         Prince Store Detectric Do.	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public JUPS, Timanaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan US, 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           99 PAOLA HLL, PAOLA PLA JURD, Malta           99 PAOLA HLL, PAOLA PLA TOZ, Malta           199 PAOLA HLL, PAOLA TOZ, MALTA           199 PAOLA HLL, PAOLA TOZ, MALTA           199 PAOLA HLL, PAOLA TOZ, MALTA           100 Corporate Viocida Parkavidy, Wernon Hilla, Le 00061 USA           1.elivilkasen 438, NO-5179 Godvik, Norway           180/L, Miguel de Corvantes Savedra 301, Toren Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Cludad de Masico, CP 11520, México           Cebaco: Centre - Block A Autostrade Dora P.O. Dax 11.1314 Beirut - Leban	+370 (0)45-582-728 +603-5569-3748 +603-5669-3748 +603-5669-31280 +356 (0)21-897-816 +212 681 45 15 96 +977-1.4411330 +37 (0)1-487-19 11 +477-472-2100 +477 (4)55-506000 +477 (4)55-506000 +477 (4)55-506000 +478 (4)55-5060000 +478 (4)55-506000 +478 (4)55-5060000 +478 (4)55-5060000 +478 (4)55-506000000000000000000000000000000000
Lithuania Malaysia Matta Maroco Myanmar Nepal Netherlands North America North America North America Norway Mexico Middle East Arab Courties & Cypus Pakistan Peru	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MAROC         Peace Myammar Electric Co.,Ltd.         Watt&Voit House         Imtech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Prince Selectric Co.         Rhona S.A. (Branch office)         Brona S.A. (Branch office)	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Pemberita U1/49, Jremaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TO22, Matta           99 PAOLA HILL, PAOLA PLA TO22, Matta           NUTL, PAOLA PLA TO22, Matta           NO137/199 Exothatung Pagoda Road, Botahuang Tovn Shipi J1161, Yangon, Myanmar           KM 7, 2 NOUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/199 Exothatung Pagoda Road, Botahuang Tovn Shipi J1161, Yangon, Myanmar           KH4 2, 65, Voit House Dilibazar Post Box:2108, Kathmandu, Nepal           Sluisjesciji T, ISS, NL-3087, A Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, NO-5179 Godvik, Norway           Bivd, Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Makico           Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, S4600, PAKISTAN           Avenida Argentina 2201, Carcado de Lima	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-1697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +427-2550000           +52-55-3067-7511           +961-1-240430           +92-42-575232 (5753373)           +51-1-464-4459
Lithuania Malaysia Malta Maroco Myanmar Nepal Netherlands Norway Metherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Delitanian	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHIELE MAROC         Peace Myarmar Electric Co.,Ltd.         WattAVoit Hourd Stream Electric Co.,Ltd.         WattAVoit Hourd Stream Electric Co.,Ltd.         WattAVoit Hourd Stream Electric Co.,Ltd.         WittaVoit Hourd Stream Electric Co.,Ltd.         WittaVoit Hourd Stream Electric Co.,Ltd.         WittaVoit Hourd Stream Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public JURP Subang, Jaya, 47820 Selangor Darul Ehsan, Malaysia           60, Jalan USJ 10/16, LIEP Subang, Jaya, 47820 Selangor Darul Ehsan, Malaysia           99 PAOLA HILL, PAOLA PLA 1702, Maita           99 PAOLA HILL, PAOLA PLA 1702, Maita           90 PAOLA HILL, PAOLA PLA 1702, Maita           91 PAOLA HILL, PAOLA PLA 1702, Maita           91 PAOLA HILL, PAOLA PLA 1702, Maita           91 PAOLA HILL, PAOLA PLA 1703, Maita           91 PAOLA HILL, PAOLA PLA 1704, Maita           91 PAOLA HILL, PAOLA PLA 18, Botahtaung Town Ship 11161, Yangon, Myanmar           91 PAOLA PLA 18, Botahtaung Paoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar           91 PAOLA PLA 199, Botahtauga Post Bota 199, Kathmandu, Mepal           91 PAOLA PLA 199, Botahtauga Post Bota 116, Kathmandu, Mepal           91 PLA 199, He Obsod Parkaway, Vernon Hill, Le 60061 USA           Leirvikasen 438, NO-5179 Godvik, Norway           91 PML, Maita de Carvante Saavedra 301, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México           Cebaco Cen	+370 (0)45-582-728 +603-5569-3748 +603-5569-3748 +603-5669-3748 +356 (0)21-697416 +212 661 45 15 96 +357 (0)1-202589 +377-14411330 +377 (0)10-487-19 11 +487-478-2100 +477 (0)55-506000 +52-55-3067-7511 +961-1-240430 +961-1-240430 +51-1-464-4459 +53-002-256-8042
Lithuania Malaysia Marta Marcoo Myammar Nepeal Nertherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MAROC         Peace Myammar Electric Co.,Ltd.         WattSvöll House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Prince Silectric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edison Electric. Interacted. Inc.	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Temasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA TOZ, Malta           99 PAOLA HLL, PAOLA PLA TOZ, Malta           NO137/139 Botahaung Pagada Boad, Botahaung Tourn Shipi 11161, Yangon, Myanmar           KM 7, 2 NOLIVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/139 Botahaung Pagada Boad, Botahaung Tourn Shipi 11161, Yangon, Myanmar           KHA 2, 65, Volt House Dillazzar Post Box:2108, Kaltmandu, Nepal           Stuligasciji 1, 55, NJ-3087, AG, Rottardam, Natheriardar           S00 Carporate Woods Parkway, Vernon Hills, L 60061 USA           Lakrikasan 43B, NO-5179 Gedvik, Inon Hills, L 60061 USA           Lakrikasan 43G, Cuidad de Makico, Di 1520, México           Cebaco Center - Block A Autostrade Dora PO. Box 11-1141 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Vaenida Argentia 2201, Cerater, Edab Cr. Ortigas Ave., Quezon Citv, Metro Manila, Phillippines           128t, Lopez Rizi SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Phillippines           128th FL, Galeria Corporate Certer, Edab Cr. Ortigas Ave., Quezon Citv Metro Manila, Phillippines	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5669-3748           +560 (2)1-697-816           +212 (6)1 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-911           +47-478-2100           +47 (0)5-506000           +42-55-3067-7511           +96-11-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-(0)2-258-8042           +63-(0)2-258-4042
Lithuania Malaysia Maita Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico Mexico Mexico Mexico Pakistan Peru Philippines	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHIELE MAROC         Peace Myamma Flectric Co.,Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electric Generale-International-S.A.L.         Prince Electric Co.         Prince Electric Co.         Reinon S.A. (Branch office)         MELCO Cractory Automation Philippines Inc.         Edition Electric Integrated, Inc.	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Perberita U1/49, Iremaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA 1702, Malta           99 PAOLA HILL, PAOLA PLA 1702, Malta           NUTL, PAOLA PLA 1702, Malta           NO137/199 Bothahung Pagoda Road, Bothahung Town Shipi 1161, Yangon, Myanmar           KM 7, 2 NOLIVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/199 Bothahung Pagoda Road, Botahuang Town Shipi 1161, Yangon, Myanmar           KHA 2, 65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisegiciji TS, NL-3007 A.R. ORterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, No-5173 Godvik, Norway           Bivd. Miguel H de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Mexico, CP 11520, México           Cebaco Center - Block A Autostrade Dora PC. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKKISTAN           Averida Argentina 2201, Corcado de Lima           128h F. Calera Gorporate Corporate Corporate Corporate Corporate Corporate Corporate R, Corporate Corporate Corporate Corporate, Edga Co. Ortiga Ave., Quezon City Metro Manila, Philippines	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +56 (0)21-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +9611-1-240430           +90-42-875202, 5753373           +51-1-464-4459           +63-(0)2-2549-8001           +63-(0)2-2549-8001
Lithuania Malaysia Malta Marcoo Myanmar Nepal Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland	Rifas UAB         Mithic Safi Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MARDCL         Peace Myammar Electric Co.,Ltd.         Watt&Volt House         Inntech Marine & Offshore B.V.         Mitsubsin Electric Automation, Inc.         Scanelec AS         Mitsubsin Electric Automation, Inc. Mexico Branch         Comptoir of Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edisor Electric Integrated, Inc.         Mitsubsin Electric Furge B.V. Polish Branch	Tinklu 224, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Pemberita U1/49, Iremaya Industrial Park, Giermarie 40150 Shah Alam, Setangor, Malaysia           60, Jalan US,1 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           90 PAOLA HILL, PAOLA PLA J. Toraz, Malta           90 PAOLA HILL, PAOLA PLA TOZ, Malta           KM 72 NOLVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar           KHA 2-65, Kolt House Dillibazar Post Box: 2108,Kathmandu, Mepal           Slusijesciji, 155, NL-3097 AG Rotterdiam, Netherlands           500 Corporate Woods Parkway, Vernori Hill, LE 60061 USA           Leirvikasen 438, NO-5179 Godvik, Norway           Bivd. Miguel de Corvantes Saavidra 301, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hidaigo, Ciudad de Maxico, CP 11520, México           Cebaoc Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argentina 22071, Cercado de Lima           124, Lopez Riad SL, Bgy; Highway Hills, Mandaluyong City, Metro Manila, Philippines           2414 R. Galeria Corporate Center, Edas Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           2416 R. Galeria SL: Bgy; Highway Hills, Mandaluyong City, Metro Manila, Philippines	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-569-3748           +560 (0)21-897-816           +212 (861 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-467-19 11           +447-478-2100           +47 (4)55-506000           +42-25-5067-7511           +961-1-240430           +92-42-575222, 5753373           +51-1-464-4459           +63-(0)2-256-8042           +63-(0)2-263-8681           +48 12 347 65 00
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         AL-PATRADE LTD         SCHIELE MAROC         Paece Myammar Electric Co.Ltd.         Watt&Voit House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electric Europe B.V. Polish Branch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Pimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           NO137/139 Botahaurg Paogade Road, Botahauran, Town Shipi 11161, Yangon, Myanmar           KM 7, 2 NCUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/139 Botahaurg Paogade Road, Botahaurang Town Shipi 11161, Yangon, Myanmar           KHA 2, 65, Volt House Oilibazar Post Box:2108, Kathmandu, Nepal           Siluişisediji, 155, NI-3087 A, Ro Roterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leinvikasen 48, NO-5173 Gotik, Norray           Bird, Migual I de Cervantes Saavedra 301, Tore Norte Pios 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makoco, CP 11520, Makoo           Qui LBERG II, LAHONE, 54600, PAKISTAN           Avenida Argentia 2201, Carcenter, Edas C. Ortigas Avea, Quezon City Metro Manila, Philippines           128t, Lopez Rizal SL, Bry, Highway Hills, Mandaluyong City, Metro Manila, Philippines           128th FL, Galleria Corporate Carter, Edas C. Ortigas Avea, Quezon City Metro Manila, Philippines           Yath FL, Aleria Corporate Carter, Edas C. Ortigas Avea, Quezon City Metro Manila, Philippines           Yath FL, Kaleria Corporate Carter, Edas C. Ortigas Avea, Quezon City Metro Manila, Philippines </td <td>1370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +556 (0)21-1697-816           +212 661 45 15 96           +977-1-4411330           +37 (0)10-487-19 11           +477 478-2100           +47 (0)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-44459           +63-3(0)2-268-8042           +63-3(0)2-268-48691           +481 2347 65 00           +373 (0)2-266-4242</td>	1370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +556 (0)21-1697-816           +212 661 45 15 96           +977-1-4411330           +37 (0)10-487-19 11           +477 478-2100           +47 (0)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-44459           +63-3(0)2-268-8042           +63-3(0)2-268-48691           +481 2347 65 00           +373 (0)2-266-4242
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico Mexico Mexico Mexico Pakistan Peru Peru Philippines Petad Perad Perad Perad	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHIELE MAROC         Peace Myamma Telectric Co.,Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scamelec AS         Scamelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricité Generale-International-S.A.L.         Prince Electric Co.         Rhoma S.A. (Branch offica)         MELCO Factory Automation Philippines Inc.         Edition Electric Integrated, Inc.         Mitsubishi SRL.         Evinis Tendrin & Sanches SH	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Perberita U1/49, Iremaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Malta           99 PAOLA HILL, PAOLA PLA TYO2, Malta           NUTL, PAOLA PLA TYO2, Malta           NM 7, 2 NOLIVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothhaung Paogoda Road, Bothathaung Town Shipi 1161 (Yangori, Myanmar           KH 7, 2 KOLIVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothhaung Paogoda Road, Bothathaung Town Shipi 1161 (Yangori, Myanmar           KH 2, 265, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal           Stulisegiciji TSS, NL-3007 AR Detotradm, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, L 60001 USA           Leivirkasan 438, NO-5173 Godvik, Norway           Bivd, Miguel de Carvartes Saavedra 301, Torre Norte Pilso 5, Col. Ampliación Granada, Miguel Hidlago, Cluidad de Mexico, CP 11520, Mexico           Cebaaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-9 CULEBER (I, LAHODE, E4600, PAKISITA           2-9 CULEBER (I, LAHODE, E4	1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +93-02-2576-2042           +93-02-26-8042           +43-12347 65 00           +43-12347 65 00           +43-12347 65 00           +43-12347 65 00           +43-12347 65 00           +43-12347 65 00           +43-12347 65 00
Lithuania Malaysia Marta Marco Myannar Nepal Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines Paland Republic of Moidova Romania	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MAROC         Peace Myanmar Electric Co.,Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.c.         Rhona S.A. (Branch office)         MELOO Factory Automation Philippines Inc.         Editon Electric Integrated, Inc.         Mitsubishi Electric surope B.V. Polish Branch         Interbis SRL         Srine Trading & Services SRL	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jaian Public Julya, Timanaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jatan USJ 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           99 PAOLA HLL, PAOLA PLA J TOR2, Matta           99 PAOLA HLL, PAOLA PLA TOR2, Matta           90 PAOLA HLL, PAOLA PLA TOR2, Matta           ND127/130 Bothhaung Pagoda Road, Ebothaung Town Ship 11161, Yangon, Myanmar           KHA 7, 265, Volt House Dillabazer Post Box:2108, Kathmandu, Nepal           Sluisjescijki 155, NL-3067 AG Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, L60061 USA           Leirvikasen 438, NO-5173 Godvik, Norway           Bivd. Miguel de Cevaraites Savierdra 301, Toren Norte Piso 5, Col. Ampliación Granada,           Miguel Hiddigo, Cludia de Makoco, Col. Not. 11520, México           Cebaco: Centre - Block A Autostade Dora PLO. Box 11:1314 Beirut - Lebanon           2:P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argentia S201, Corcado de Lima           12:B. Lopez, Rizel SL, Birgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           2:Hi FL, Galleria Corporate Centre, Edisa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           2:Hi FL, Galleria Corporate Centre, Edisa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           2:Hi FL, Galleria Corporate Centre, Edisa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           2:Hi FL,	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5669-3748           +560 (0)1-1697-161           +212 661 45 15 96           +977-1.4411330           +31 (0)10-487-19 11           +487-478-2100           +47 (195-506000)           +52-55-3067-7511           +961-1-240430           +92-42-575225, 5753373           +51-1-464-4459           +63-(0)2-256-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-804-804           +63-(0)2-804-804           +63-(0)2-804-804           +63-(0)2-804-804           +63-(0)2-804-804           +63-(0)2-8
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlands North America North America Northay Mexico Middle East Arab Courtries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         AL-PTRADE LTD         SCHEILE MAROC         Peace Myammar Electric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SA.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Reyrade, Inc.	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 124, Temaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           99 PAOLA HILL, PAOLA PLA TO29, Matta           99 PAOLA HILL, PAOLA PLA TO29, Matta           ND137/139 Eotahaung Pagoda Boad, Boadhaung Tourn Shipi 11161, Yangon, Myanmar           KM 7, 2 NOUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Eotahaung Pagoda Boad, Boathatung Tourn Shipi 11161, Yangon, Myanmar           KHA 2, 65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Siluigisciji I, Sto.N.:3087, AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leinvikasen 438, NO: 5179 Godvik, Norway           Bivd, Miguel de Cervartes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Makico           Questa Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argenia Corporate Center, Edsa C: Origas Ave., Quezon City Metro Manila, Philippines           1281, Lopez Rizal St., Bry, Highway Hills, Mandaluyong City, Metro Manila, Philippines           1284 FR, Galleria Corporate Center, Edsa C: Origas Ave., Quezon City Metro Manila, Philippines           Krakowska 48, 32-083 Balice, Poland           Lot. Trainal St., Bry, Highway Hills, Mandaluyong City,	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)21-697-816           +212 661 45 15 36           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (205-506000           +52-55-3067-7511           +961-1-240430           +92-42-575222, 5753373           +51-1-464-4459           +63-(0)2-268-8042           +63-(0)2-264-8041           +4812 347 65 00           +373 (0)2-266-4242           +402 (12-430-40-06           +77 (095-12-070
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico Mexico Middle East Pakistan Parkistan	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALFATRADE LTD         SCHELE MAROC         Peace Myamma Flectric Co.,Ltd.         Watt&Voit House         Intrach Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scamelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch offica)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Europe B.V. Polish Branch         Intents SRL         Sirius Trading & Services SPI.         Mitsubish Electric Gacodes	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public July Janawa Industrial Park, Glermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           69 PAOLA HILL, PAOLA PLA J Trady, Malta           69 PAOLA HILL, PAOLA PLA J TOZ, Malta           61 KM 2-65, Koth House Dillabazari Post Box 2103 Kaltmandu, Nerpal           51 KM 2-65, Koth House Dillabazari Post Box 2103 Kaltmandu, Nerpal           51 Kuisgesdijk 155, NL-3097 AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hill, Le 60061 USA           Leirvikasen 438, NO-5179 Godvik, Norway           Bivid. Miguel de Cavartes Saavedra 301, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hidaigo, Ciudad de Maxico, CP 11520, México           Cebaco Centror - Block A Alutostrade Dora P.O. Dox 11:1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argentina 2201, Carcado de Lima           128, Lopez Riza St., Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           2416 FL Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           128, Lopez Riza St., Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           128, Lopez Riza St., Brgy, Highway Hills, Mandaluyong City	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (0)55-506000           +52-55-3067-7511           +92-42-575232, 5753373           +92-42-575232, 5753373           +93-42-68-402           +463-(0)2-63-48691           +48 12 347 65 10           +47 405           +63-(0)2-26-8042           +63-(0)2-26-3042           +63-(0)2-43-48691           +48 12 347 65 10           +47 205-50404           +63-(0)2-140-40-424           +63-(0)2-140-40-424           +63-(0)2-140-40-424           +64-(0)21-430-40-60           +7 495 721-2070           +965-14770149
Lithuania Malaysia Marta Marco Myamar Nepal Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines Poland Republic of Moldova Romania Studi Arabia	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHEILE MAROC         Peace Myammar Electric Co.,Ltd.         WattSvöll House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubish Electric Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Europe B.V. Polish Branch         Intents SRL         Sirus Trading & Services SRL         Mitsubish Electric (Runspi) LLC         Center of Electrical Goods         Mitsubish Electric (Burspi) LLC	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1047, Imanaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA TOZ, Malta           99 PAOLA HLL, PAOLA PLA TOZ, Malta           NO137/139 Botahaung Pagade Boad, Botahaung Tourn Sing J1161, Yangon, Myanmar           KM 7, 2 NOLIVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/139 Botahaung Pagade Boad, Botahaung Tourn Sing J1161, Yangon, Myanmar           KHA 2, 65, Volt House Dillaszar Post Box:2108, Kathmandu, Nepal           Sulajescijk, 155, NL-3087 AG, Rottardam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leirvitasen 438, NO-5173 Gotvik, Horway,           Bird, Miguel de Covarites Savedra 301, Tore Norte Pileo 5, Col. Ampliación Granada,           Miguel Hidalgo, Custorado Pora PO. Box 111-114 Beirut - Lebanon           2-P GULBERG II, LAHORE, 5400, PAKISTAN           Vaenida Argentia 2201, Creater, Edaa Cr. Ortigas Avac, Quezon City Metro Manila, Philippines           128t, Lopez Rizal SL, Bry, Highway Hills, Mandaluyong City, Metro Manila, Philippines           Varint A, Savedra 501, Torigas Avac, Quezon City Metro Manila, Philippines           Varint A, Savedra 58 allice, Poland           Ud. Train Cartor State Correr, Edaa Cr. Ortigas Avac, Quezon City Metro Manila, Philippines           Varint A, Savedr	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (2)1-1997-161           +212 (6)1 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +47-478-2100           +47 (4)55-506000           +42-25 75232, 5753373           +51-1-464-4459           +63-(0)2-256-9042           +63-(0)2-256-9042           +63-(0)2-256-9042           +63-(0)2-256-4042           +63-(0)2-256-4042           +63-(0)2-256-4042           +73 (0)2-266-4042           +73 (0)2-266-4042           +74 (0)2 (-430-40-06           +77 (4)2 (-430-40-06           +74 (-10)2 (-1430-40-06           +74 (-142)2 (-2070
Lithuania Malaysia Matta Marcoo Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cypus Pakistan Peru Philippines Poland Republic of Middova Romania Romania Saudi Arabia Singapore	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         AL-PATRADE LTD         SCHEILE MAROC         Peace Maynmar Electric Co.Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Prince S Leftractor Forget and Line.         Mitsubish Electric Europe B.V. Polish Branch         Intehsis SRL.         Sirus Trading & Services SRL.         Mitsubish Electric Glucos SRL         Mitsubish Electric Alatomas ILLC         Center of Electric Glucods	Tinklu 29A, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Public 199, Timanga Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           91 PAOLA HILL, PAOLA PLA TOZ, Matta           NULL, PAOLA PLA TOZ, Matta           N137/139 Bothahung Pagoda Road, Bothahung Town Shipi J1161, Yangon, Myanmar           N137/139 Bothahung Pagoda Road, Bothahung Town Shipi J1161, Yangon, Myanmar           N137/139 Bothahung Pagoda Road, Bothahung Town Shipi J1161, Yangon, Myanmar           N137/139 BN, N0-5179 Goddk, Ronzya           S00 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leirvikasen 438, N0-5179 Goddk, Oravay           Bivd, Miguel de Carvantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Makico           QuibleRG II, LAHORE, 54600, CMAKIC, QUE MANGUANA           Avenida Argentia 2201, Carcado de Lima           128, Lopez Rizli SL, Birgy, Hightway Hills, Mandaluyong City, Metro Manila, Phillippines           24th FL, Gallerta Corporate Carretar, Edas Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           128, Lopez Rizli SL, Birgy, Hightway Hills, Mandaluyong City, Metro Manila, Philippines           128, Lopez Rizli SL, Birgy, Hightway Hills, Mandaluyong City, Metro Manila, Philippines           128, Talan 221, MD-2006 Kkhinev, Moldova           Ro-6060	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)21-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (205-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-459           +63-(0)2-256-8042           +63-(0)2-264-3691           +481 (2)1-430-40-96           +737 (0)2-266-4242           +40-(0)21-430-40-96           +77 (4)2           +95-61-4770149           +95-61-4770149
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlands North America North America North America North America Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Saudi Arabia Singapore	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALFATRADE LTD         SCHELE MAROC         Peace Myamma Flectric Co.,Ltd.         Watt&Voit House         Intrach Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Europe B.V. Polish Branch         Inteshis SRL         Siruis Trading & Services SRL         Mitsubish Electric Gatores         Retrof: Editoria Goods         Mitsubish Electrical Goods         Mitsubish Electrical South         PROCONT, Presov	Tinklu 224, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Pemberta U1/49, Iremaya Industrial Park, Glermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           90 PAOLA HILL, PAOLA PLA J. Tamaya Industrial Park, Glermarie 40150 Shah Alam, Selangor, Malaysia           90 PAOLA HILL, PAOLA PLA J. TOZ, Malta           FM 72 A NOLVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar           KH 2-65, Kolt House Dillibazar Post Box 2108,Kathmandu, Mepal           Sluajseciji, 155, NL-3097 AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L60061 USA           Leirvikasen 438, NO-5179 Godvik, Norway           Bivd. Miguel de Corvante Saavidra 301, Tore Norte Piso 5, Col. Ampliación Granada, Miguel Hidaigo, Ciudad de Maxico, CP 11520, México           Cebaoc Centre - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argentina 22071, Cercado de Lima           124, Lopez Riad SL, Bigy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           2478         Galbander, Alayoub SL, PO. Box 15955 Riyadh 11454 - Saudi Arabia           B/O-606041 Haurest, Sactor & Aleea Lccul Morii Nr. 3           RO-606041 Buruerst), Sactor & Aleea Lccul Morii Nr. 3           Ch-0605041 Kourrest, Salhuddin Al-Ayoubi SL, PO. Box 15955 Riyad	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (0)21-897-816           +212 (861 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-467-19 11           +447-478-2100           +47 (4)55-506000           +42-255-2007-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-0(2)-256-8042           +63-0(2)-256-8042           +43 (2) 347-8610           +470(2)-430-40-66           +7 485 721-2070           +986-1-4770149           +65-6472-2308           +421 (0)41 - 7580 611
Lithuania Malaysia Mata Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Peru Philippines Peland Republic of Moldova Romania Saudi Arabia Saudi Arabia Singapore Slovakia	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHIELE MAROC         Paces Myammar Electric Co.Ltd.         Watt&Voit House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubish Electric Automation Philippines Inc.         Edions Electric Integrated, Inc.         Mitsubish Electric Furope B.V. Polish Branch         Intents SRIL         Sirus Trading & Services SRL         Mitsubish Electric Guoses SRL         Mitsubish Electric Automation LCC         Cerner of Electrical Goods         Mitsubish Electric Asia Phys. Ltd.         PROCONT, Presov         SimaP	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Pubertia U1/49, Temasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           NO137/139 Exothatury Pagode Road, Botanium, Town Shipi 1161 Yangon, Myanmar           KM 7 2 NOLIVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Manoco           NO137/139 Exothatung Pagode Road, Botanium, Town Shipi 1161 Yangon, Myanmar           KHA 2, 65 Volt House Oilibazar Post Box:2108,Kaltmandu, Nepal           Stuligisciji I, ISS, NL-3087 A, Ro Roterdam, Netherlands           S00 Comporate Woods Parkway, Vernon Hills, L 60061 USA           Lainviasam 48, NO.5173 Cadvik, Norray           Bird, Migual I de Cavvinthe Saavedra 301, Torne Norte Pios 5, Col. Ampliación Granada, Migual Hidaigo, Ciudad de Máxico, CP 11520, México           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Agentia 2201, Cercuret, Edaa C: Origas Ave., Quezon City Metro Manila, Philippines           128th FL Galleria Corporate Center F, Edaa C: Origas Ave., Quezon City Metro Manila, Philippines           Markin Kurskinew, Moldova           RO-060641 Bucuresti, Sactor 6 Aleea Lacul Moril N: 3           2 Lid, Litter Road, Mitshibinew, Moldova           RO-060641 Bucuresti, Sac	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (2)1-697-816           +212 (601 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +474 7478-2100           +47 (0)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4449           +63-0(2)-268-4042           +63-0(2)-268-4042           +63-0(2)-268-4042           +63-0(2)-266-4242           +40-0(2)-430-40-06           +77 495 721-2070           +966-1-4770149           +956-6472-3208           +421 (0)(2) 7.580 6111           +421 (0)(2) 7.430 472
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America Northay Mexico Middle East Arab Courtries & Cypus Pakistan Peru Philippines Poland Republic of Midova Romania Russia Saudi Arabia Saudi Arabia	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALAFTRADE LTD         SCHELE MAROC         Paces Maynmar Electric Co.Ltd.         Watt&Volt House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Sornele CAS.         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricit Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Rhona S.A. (Branch office)         Rhona S.A. (Branch office)         Mitsubishi Electric Europe B.V. Polish Branch         Mitsubishi Electric Europe B.V. Polish Branch         Mitsubishi Electric Russigu LLC         Center of Electrica Goods         Mitsubishi Electric, Alsa Ple. Ltd.         PROCONT, Presov         SIMAP	Tinklu 29A, LT-5300 Panevezys, Lihuania           No. 5 Jalan Pubrita U1/49, Tiamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           99 PAOLA HILL, PAOLA PLA TOZ, Matta           NM 72 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           N0137/139 Bothhaung Pagoda Road, Botahuang Town Shipi 1161 (Yangon, Myanmar           KH 7, 2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           N0137/139 Bothhaung Pagoda Road, Botahuang Town Shipi 1161 (Yangon, Myanmar           KH 2, 265, Vich House Dilibazar Post Box:2108, Kathmandu, Nepal           Stiulejeciji I, TS, NL-3087 A. Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, NO-5179 Gadviko, CP 11520, Mexico           Cebaco Center - Block A. Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argentina 2201, Carcado de Lima           128, Lopez Rital St., Birgy: Highway Hills, Mandaluyong City, Metro Manila, Philippines           124th FL Gallenta Corporate Chrener, Edas Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           126, Lopez Rital St., Birgy: Highway Hills, Mandaluyong City, Metro Manila, Philippines           1276 HCLBERG II, LAHORE, Seton O Aleova           1287 HE, Galemand Corporate Center, E	1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +560 (0)21-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (0)55-50000           +52-55-3067-7511           +9611-240430           +92-42-575232, 5753373           +51-1-464-1459           +63-(0)2-256-8042           +63-(0)2-266-4042           +463-(0)2-430-400-66           +737 (0)2-66-4242           +402 (0)21-430-40-66           +737 (0)2-66-4242           +402 (0)21-430-40-66           +74 (0)51-7508 (611           +421 (0)32-734 (0) 472
Lithuania Malaysia Marta Marco Myannar Nepal Netherlands Norway Mexico Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Peru Philippines Peru Philippines Saudi Arabia Singapore Slovakia Slovakia	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHELE MAPOC         Peace Myanmar Electric Co.,Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prinze Electric Co.c.         Prinze Electric Co.c.         Rhona S.A. (Branch officio)         Mitsubishi Electric Automation Philippines Inc.         Edition Electric Co.c.         Mitsubishi Electric Rurge B V. Polish Branch         Interbais SRL         Sinke Irading & Services SRL         Mitsubishi Electric Rurge R V. Polish Branch         Interbaishi Electric Rurge R V. Polish Branch         Mitsubishi Electric Rurge R V. Polish Branch         Interbaishi Electric Rurge R V. Polish Branch         Mitsubishi Electric Rurge R V. Polish Branch         Interbaishi Electric Rurge R V. Polish Branch         Interbaishi Electric Rurge R P L. LL	Tinklu 224, LT-5300 Panevezys, Lihtuania           No. 5. Jalan Public Julya, Tiamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ehsan, Malaysia           99 PAOLA HLL PAOLA PLA I: Toranaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           99 PAOLA HLL, PAOLA PLA I: TOR2, Malta           91 PAOLA HLL, PAOLA PLA I: TOR2, Malta           92 PAOLA HLL, PAOLA PLA I: TOR3, Maltang Toron Ship 11161, Yangon, Myanmar           181 PLA Miguel de Covantes Savedra 301, Toron Norte Plso 5, Col. Ampliación Granada, Miguel Hidaigo, Cludida de Masico, CP 11520, México           Cebaco: Centre - Block A Autostrade Dora PLO. Box 11:1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argentia 2201, Cenzado de Lima           128, Logaz, Rizzi SL, Bigy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           24th FL, Galleria Cortex do de Lima           128, Logaz, Rizzi SL, Bigway Gi Salhuddin Al-Ayoubi SL, POL Causon City Metro Manila, Philippines           24th FL, Galleri	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (0)1-1697-161           +212 661 45 15 96           +977-1.4411330           +31 (0)10-467-19 11           +447-478-2100           +47 (4)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575225, 573373           +51-1-464-4459           +63-(0)2-256-6042           +63-(0)2-26-8042           +63-(0)2-26-8042           +63-(0)2-230-40-66           +7 495 (721-2070           +968-1-4770149           +65-6472-2308           +421 (0)51 - 7580 611           +421 (0)21 - 7580 611           +421 (0)21 - 7580 611           +421 (0)32 - 733 04 72           +386 (0)1-581 61
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Sioyenia Siovakia	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHELE MAROC         Pace Myammar Electric Co.Ltd.         Watt&Voit House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Comptoir d'Electricite Generale-International-SAL.         Prince Electric Co.         Rhona SA. (Branch office)         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SAL.         Prince Electric Co.         Rhona SA. (Branch office)         Mitsubishi Electric Rursega U. Polish Branch         Intents SRL         Sirus Trading & Services SRL         Mitsubishi Electric Rursega ULC         Center of Electric Codes         Mitsubishi Electric Alarpene SNL         Mitsubishi Electric Alarpene SNL         Mitsubishi Electric Alarpene SNL         Mitsubishi Electric Rursega ULC         Center of Electric Codes         Mitsubishi Electric Alarpene         SIMAP         Inea RBT d.o.o.         CiB-electric low voltage	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Premaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           ND137/139 Detahtaurg Pagoda Boad, Boad, Boad, Boad, Boad, Magana           Silvijesciji T, Sh. N.3087 AG, Rotterdam, Netherlands           Silvijesciji T, Sh.N.3087 AG, Rotterdam, Netherlands           Silvijesciji T, Sh.N.3087 AG, Rotterdam, Netherlands           Silvijesciji T, LehroRE, Saavedra 301, Torre Norte Pios 5, Col. Ampliación Granada, Miguel Hidago, Cudad de Mukoco, CP 11520, Mexico           Quel LEBRG II, LAHORE, 54600, PAKISTAN           Avenida Agenta 2201, Certer Edsa CC. Tortigas Ave., Quezon City Metro Manila, Philippines           128th FL, Galeria Corporate Center Edsa CC. Tortigas Ave., Quezon City Metro Manila, Philippines           Krathowska 48, 32-085 Balice, Poland           Hoit, Traian 221, MoSc2006 Nishinew, Moldova	1370 (0)45-582-728           +370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +560 (2)1-697-816           +212 (61 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +477-478-2100           +47 (0)55-506000           +52-55-3067-7511           +96-11-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-002-268-8042           +63-002-268-8042           +63-02-263-8061           +47 (2)52-2700           +986-1-4770149           +65-6472-3208           +421 (0)51-7580 611           +421 (0)51-7580 611           +421 (0)51-7580 422           +386 (0)1-513-8116           +427-0011-282000
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Coprus Pakistan Peru Philippines Peru Philippines Peru Philippines Saud Arabia Singapore Slovakia Slovenia South Africa	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHIELE MAROC         Paces Maynmar Electric Co.Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc.         Scaneler AS         Mitsubish Electric Generale-International-S.A.L.         Prince Electric Co.         Prince Electric Integrated, Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electric Europe B.V. Polish Branch         Mitsubishi Electric Ruspes S.L.         Sifus Frading & Services S.RL         Mitsubishi Electric Alsa Phe. Ltd.         PROCONT, Presov         SIMAP         Inea R d d.o.o.         OB-lectric: Ion Voilage	Tinklu 29A, LT-5300 Panevezys, Lihuania           No. 5 Jalan Public 104, Jimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Matta           99 PAOLA HILL, PAOLA PLA TYO2, Matta           NM 72 NOUVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           N0137/139 Bothatung Pagoda Road, Botahtang Town Shipi 1161 (Yangon, Myanmar           KN 7, 2 NOUVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           N0137/139 Bothatung Pagoda Road, Botahtang Town Shipi 1161 (Yangon, Myanmar           KH 2, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulgesciji 155, NL-3087 AG, Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, NO-5179 Godvik, Norway           Bivd. Miguel I de Cervantes Saavdra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Mekico           Questa Str., Brgy, Highway Hills, Mandalayong City, Metro Manila, Philippines           2:P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argentina 2201, Cercado de Lima           128. Lopez Rizal Str., Brgy, Highway Hills, Mandalayong City, Metro Manila, Philippines           124h FL Callerta Corporate Correct F. Edas C. Ortigas Ave., Quezon City Metro Manila, Philippines           126. Lopez Rizal Str., Brgy, Highway Hills, Mandalayong City, Metro Manila, P	1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +560 (0)21-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232<5753373
Lithuania Malaysia Marta Marco Marta Nepeal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines Peru Philippines Poland Republic of Moldova Romania Saudi Arabia Singapore Slovakia Slovenia Slovenia South Africa Spain	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHEILE MAROCC         Peace Myanmar Electric Co.,Ltd.         WattSvöll House         Imtech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir of Electricite Generale-International-S A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubishi Electric Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electric Rurope B.V. Polish Branch         Mitsubishi Electric (Russia) LLC         Corrier of Electrical Goods         Mitsubishi Electric Astor Ples Nut.         PRCOONT, Presov         SIMAP         Inea RBT d.o.         CB= electric: Isovo electric.         Inea RBT d.o.         CB-electric: Europe B.V. Spanish Branch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5. Jalan Pubbrita U1/49, Iremaya Industrial Park, Giermarie 40150 Shah Alam, Salangor, Malaysia           60, Jalan USJ 10/18, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL PAOLAPLA I, Torz, Matta           99 PAOLA HLL, PAOLAPLA TA/22, Matta           VM 72 NOLVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           N07137/139 Exothatung Pagaeda Road, Ebotathaung Tourn Shipi 1161 (Yangon, Myanmar           KHA 72 ASUVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           N07137/139 Exothatung Pagaeda Road, Ebotathaung Tourn Shipi 1161 (Yangon, Myanmar           KHA 2, 65 Wit House Dillazzar Post Box:2108,Kathmandu.Nepal           Studgeschijk 155, NL-3087 AG Rottardom, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leirvitkasen 438, NO-5173 Godvik, Norway           Bhvd. Miguel de Covarites Savedra 301, Toren Norte Piso 5, Col. Ampliación Granada,           Miguel Hiddigo, Cludid de Mexico, O 11520, México           Cebaco Centre - Elock A Autostrade Dora PLO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 5400, PAKISTAN           Vaenida Argenida Corporate Center, Edias Cr. Otigas Avea, Quezon City Metro Manila, Philippines           Yath Fi, Galleria Goroprate Center, Edias Cr. Otigas Avea, Quezon City Metro Manila, Philippines           Yath Fi, Galleria Corporate Center, Edisa Cr. Otigas Avea, Quezon City Metro Manila, Philippines	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (2)1-1697-161           +212 661 45 15 96           +977-1.4411330           +31 (0)10-487-19 11           +47-478-2100           +47 (4)55-506000           +42 2-57322, 5753373           +51-1.464-4459           +63-(0)2-256-4042           +63-(0)2-266-4042           +63-(0)2-264-8691           +42 (0)2-453-4601           +73 (0)2-266-4042           +66-64-702-308           +7485 (2)1-430-40-06           +7485 (2)1-7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +421 (0)31 - 7580 6611           +431 (0)31 - 586 53 - 311
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Peru Philippines Peland Republic of Moldova Romania Russia Saudi Arabia Siovakia Siovakia Siovakia Siovakia Siovakia Siovakia Siovakia Siovakia	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         AL-PTRADE LTD         SCHELE MAROC         Peace Myammar Electric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubishi Electric Russej         Mitsubishi Electric Guorepe B.V. Polish Branch         Intehsia SRL         Situs Trading & Services SRL         Mitsubishi Electric Russej U.C         Center of Electric Gloods         Mitsubishi Electric Aia Pls. Ltd.         PROCONT, Presov         SIMAP         Inea RIF d.o.o.         Cell-electric: Iow voltage         Mitsubishi Electric Europe B.V. Spanish Branch         Mitsubishi Electric Facine Barch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Pramaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           ND137/139 Dotahaung Paogoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           KM 7, 2 NCUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Dotahaung Paogoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           KHA 2, 65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulispisodji T, Sh.N.:3087, 7A, Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leinvikasen 438, NO:5173 Gordik, Norway           Bird, Miguel H de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Makco           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argenita 2201, Carcad de Marko, Quezon City Metro Manila, Philippines           128t, Lopaz Rizal SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           Vath FI, Galleria Corporate Carler, Edsa C. Ordigas Ave., Quezon City Metro Manila, Philippines           Vath FI, Salleria Corporate Carler, Edsa C. Ordigas Ave., Quezon City Metro Manila, Philippines           Vath FI, A	1370 (0)45-582-728           +370 (0)45-582-728           +603-569-3748           +603-569-3748           +560 (2)1-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (0)55-5605000           +52-45-3067-7511           +981-1-240430           +92-42-575232, 5753373           +51-1-464-4449           +63-(0)2-268-8042           +63-(0)2-268-8042           +63-(0)2-268-8042           +63-(0)2-268-4061           +47 (0)51-7580 611           +421 (0)22 743 04 72           +421 (0)51-7580 611           +421 (0)51-7580 611           +421 (0)51-7580 611           +421 (0)51-7580 611           +421 (0)51-7580 611           +421 (0)52 743 04 72           +386 (0)1-513-8116           +27-(0)11-282000           +34 (0)93-565-3131           +46 (0)8-62-51-00
Lithuania Malaysia Mata Marcoo Myanmar Nepal Netherlandis North America North America North America Norway Mexico Mexico Mexico Mexico Mexico Pakistan Peru Philippines Peru Philippines Peru Philippines Saudi Arabia Sangapore Slovakia Slovenia South Africa Spain	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHELE MAROC         Deace Maynmar Electric Co.Ltd.         Watt&Volt House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Sornele CAS         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Co.         Prince Electric Infograted, Inc.         Edison Electric Infograted, Inc.         Mitsubishi Electric Europe B V. Polish Branch         Mitsubishi Electric Russial LLC         Centre of Electrical Goods         Mitsubishi Electric Fusion B Net. Ltd.         PROWN, Presov         Sinker Technic Parkon AG         Mitsubishi Electric Europe B V. Spanish Branch         Mitsubishi Electric Asia P Ne. Ltd.         Proce Societric Asia P Ne. Ltd.         Prince B Electric Europe B V. Spanish Branch         Mitsubishi Electric Europe B V. Spanish Branch         Mitsubishi Electric Europe B V. Spanish Branch         Mitsubishi Electric Europe B V. Spanish Branch	Tinklu 29A, LT-5300 Panevezys, Lihuania           No. 5 Jalan Public 104, Jimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           Mill LL, PAOLA PLA TOZ, Matta           Silvajesciji TA NOLVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Bothatung Pagoda Road, Botahtang Town Shipi 1161 (Yangon, Myanmar           KN 7, 2 NOLVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Bothatung Pagoda Road, Botahtang Town Shipi 1161 (Yangon, Myanmar           KH 2, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stuljaesciji TS, NL-3087 AG Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, NO-5173 Godvik, Oravay           Bivd. Miguel Hidago, Cludad de Mavico, CP 11520, Mexico           Cebaco Center - Block A Autostrade Dora PC. Box 11-1314 Beirut - Lebanon           2:P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argentina 2201, Cercado de Lima           128, Lopaz Rizal SL, Bay, Highway Hilis, Mandalayong City, Metro Manila, Philippines           128, Lopaz Rizal SL, Bay, Highway Hilis, Mandalayong City, Metro Manila, Philippines           128, Lopaz Rizal SL, Bay, Highway Hilis, Mandalayong City, Metro Manila, Philippines           129, Latinikorskay, Scorto F, Abaco, Chidasa Awe, Quezon C	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)21-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575202, 5753373           +51-1-464-4459           +63-(0)2-236-8042           +63-(0)2-236-8042           +63-(0)2-243-4660           +47 (2)5-50400           +48 12 847 65 002           +437 (0)2-46-422           +40:(0)2-430-40-06           +47 (3)5-12 2070           +485 (4)3-13 04 72           +426 (0)3-7580 611           +421 (0)3-7580 611           +421 (0)3-783 04 72           +426 (0)3-153 04 72           +427 (0)1-18282000           +44 (6) (0)8-65-3131           +46 (0)8-65-3131           +46 (0)8-65-3131           +46 (0)8-65-131           +46 (0)8-65-131           +46 (0)8-65-131           +46 (0)8-65-131
Lithuania Malaysia Mata Marco Marco Myammar Nepel Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines Peru Philippines Peland Republic of Moldova Romania Romania Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         AL/ATRADE LTD         SCHEILE MAROCC         Peace Myammar Electric Co.,Ltd.         Watt&Voil House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubish Electric Automation Philippines Inc.         Edison Electric Infegrated. Inc.         Mitsubish Electric Automation Philippines Inc.         Edison Electric Infegrated. Inc.         Mitsubish Electric Automation SPHL         Sirus Trading & Services SPH.         Mitsubish Electric Russis) LLC         Certer of Electric Russis) LLC         Certer of Electric Asia Pte. Ltd.         PPOCONT, Presov         SIMAP         Inea RBT d.o.         Mitsubish Electric Russis) LLC.         CBI-electric: Iow voltage         Mitsubish Electric Asia Pte. Ltd.         PPOCONT, Presov         SIMAP         Electric Europe B.V. Spanish Branch         Mitsubishi Electric Europe B.V. Spanish Branch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1047, Imanaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA TOZ, Matta           91 PAOLA HLL, PAOLA PLA TOZ, Matta           VIII J, PAOLA PLA TOZ, Matta           VIII LL, PAOLA PLA TOZ, Matta           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanco, Maroco           VIO137/139 Botahaung Pagade Boad, Botahaung Town Ship 11161, Yangon, Myanmar           KHA 2, 65, Voli House Dillazzar Post Box:2108, Kathmandu, Nepal           Sulajescijki 155, NL-3087 AG, Rottardam, Nathariang Town Ship 11161, Yangon, Myanmar           Sula Coronate Woodb Parkway, Wrnon Hills, L 60061 USA           Larivitasen 438, NO-5172 GotVik, Norway           Bird, Miguei da Co-varates Salvedra 301, Ton Norte Pileo 5, Col. Ampliación Granada,           Miguei Hidaigo, Cudad de Matoco, 11520, México           Cebaco Centre - Biock A Autostade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Vaenida Argenita 2201, Center, Edata Cr. Origas Ave., Ouezon City Metro Manila, Philippines           Varint Argenita 2201, Center, Edata Cr. Origas Ave., Ouezon City Metro Manila, Philippines           Varint Argenita Coroprate Conter, Edata Cr. Origas Ave., Ouezon City Metro Manila, Philippines           Vath Fi, Galleria Coroprate Conter, Edata Cr. Origas	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (0)1-1697-161           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-911           +847-478-2100           +47 (0)5-506000           +42-25-75232, 5753373           +51-1-464-4459           +63-(0)2-256-8042           +63-(0)2-256-8042           +63-(0)2-256-8042           +63-(0)2-236-4061           +473 (0)2-26-8042           +63-(0)2-236-8042           +63-(0)2-236-8042           +63-(0)2-236-8042           +43-324-560           +431 (0)2-1452-800           +421 (0)21-7500 6111           +421 (0)21-7504 521           +421 (0)21-7504 521           +421 (0)21-14282000           +421 (0)21-1428200           +421 (0)21-1438-116           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-40-06           +421 (0)21-430-410-06           +421 (0)21-
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America Northay Mexico Middle East Arab Courtries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Slovenia Slovakia Slovenia Slovakia Slovenia Sudu Africa Spain Sweden Sweden	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         AL-PTRADE LTD         SCHEILE MAROC         Peace Myanner Electric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SA.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubish Electric Russigu Ltc.         Comptoir of Electric Co.         Mitsubish Electric Russigu LLC         Center of Electric Sais Ple. Ltd.         PROCONT, Presov         SIMAP         Inea RBT d.o.o.         CBI-electric: Iow voltage         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Cox Planel         Unsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Sais Ple. Ltd.         PROCONT, Presov         SIMAP         Diselectric: Iow voltage         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 104, Pramaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           99 PAOLA HILL, PAOLA PLA TOZ, Matta           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 NCUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 Schult House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulgisedji I, Sto.N.: 3037 A.C. Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leinrikasen 43, NO: 5173 Gordvik, Orvary 1           Bird, Miguel de Cervartes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Mukico, CP 11520, Mexico           Cebaco Center - Block A Autostrade Dora RO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argenia Corporate Center, Edsa C: Origas Ave., Ouezon City Metro Manila, Philippines           128th FL Galleria Corporate Center, Edsa C: Origas Ave., Ouezon City Metro Manila, Philippines           Krakowska 48, 32-083 Balice, Poland           Molt. Trainal 221, Moscoli Mishiney, Moldova	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (2)1-697-816           +212 661 45 15 36           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-250000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-(0)2-236-8042           +63-(0)2-248-4691           +481 (2)2-246-4242           +400 (2)2-43-4691           +421 (0)21-430-40-66           +77 (4)5 - 7520 611           +421 (0)21-430 472           +386 (0)1-513-8116           +27-(0)11-9282000           +34 (0)93-565-3131           +46 (0)9-625-10-00           +41 (0)202-680404           +41 (0)202-680404           +41 (0)202-882125
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlandis North America North America North America Northes & Cyprus Mexico Mexico Mexico Mexico Pakistan Peru Philippines Peru Philippines Peru Philippines Delard Republic of Moldova Romania Romania Saudi Arabia Saudi Arabia Slovakia Slovania Slovakia Slovania South Africa Spahn Sweden Switzerland	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALFATRADE LTD         SCHIELE MAROC         Peace Marmar Electric Co.Ltd.         Watt&Volt House         Timech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Co. Generale-International-S.A.L.         Prince Electric Co.         Brone SA, Branch offica)         Mitsubish Electric Europe B.V. Polish Branch         Mitsubish Electric Europe B.V. Polish Branch         Mitsubish Electric Europe B.V. Polish Branch         Mitsubish Electric Europe B.V. Lotish Branch         PROCONT, Presov         PROCONT, Presov         SIMAP         PROCONT, Presov         SIMAP         Mitsubish Electric Europe B.V. Scanish Branch	Tinklu 29A, LT-5300 Panevezys, Lihuania           No. 5 Jalan Public 10, Simanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Matta           99 PAOLA HILL, PAOLA PLA TYO2, Matta           NM 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           ND137/139 Bothhaung Paogoda Road, Bothhaung Town Shipi 1161 (Yangon, Myanmar           KH 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           ND137/139 Bothhaung Paogoda Road, Bothhaung Town Shipi 1161 (Yangon, Myanmar           KH 2, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisegidi I, FSN3007 AG Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, No-5173 Godvik, Orvay D           Bivd. Miguel Hid ago, Cludad de Mexico, CP 11520, Mexico           Cebaco Center - Block A Autostrade Dora PC. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Agentina Z201, Cercado de Lima           128 L, Opez Rizal SL, Bray, Highway Hills, Mandaluyong City, Metro Manila, Phillippines           128 L, Opez Rizal SL, Bray, Kightway Hills, Mandaluyong City, Metro Manila, Phillippines           128 Hin F. Galleria Corporate Conter, Edas C. Ortigas Ave., Quezon City Metro Manila, Phillippines           128 Hin F. Calleria Corporate C	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (2)5-1697-161           +212 (6)14-1697-161           +212 (6)14-157-86           +977-1-4411330           +31 (0)10-487-1911           +847-7478-2100           +477-478-2100           +477 (0)55-506000           +52-55-3067-7511           +961-1-240430           +90-42-375222, 5753373           +53-14.64-44.650           +53-02-254.9602           +43-12, 347, 56:001           +4612, 347, 56:004           +4612, 347, 65:00           +4612, 347, 250:00           +467, 10, 46-44.62           +4612, 347, 250:01           +4612, 10, 11-7250           +461, 10, 10, 12, 7450           +421 (0)1-7580           +421 (0)1-7580           +421 (0)1-7580           +421 (0)1-7580           +421 (0)1-7580           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450           +441 (0)30, 7450 <td< td=""></td<>
Lithuania Malaysia Mata Marco Marco Myanmar Nepel Netherlands Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Peru Philippines Peru Philippines Poland Republic of Moldova Romania Romania Saudi Arabia Singapore Slovakia Slovania Slovania South Africa Spain Sweden Sweden Sweden Sweden Takwan	Rifas UAB         Mittrio San Bhd         Flexible Automation System Sdn Bhd         AL/ATRADE LTD         SCHELE MAROC         Peace Myammar Electric Co.,Ltd.         Watt&Voil House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubish Electric Automation Philippines Inc.         Edison Electric Infegrated. Inc.         Mitsubish Electric Automation Philippines Inc.         Edison Electric Infegrated. Inc.         Mitsubish Electric Alaropa B.V. Polish Branch         Intents SPL         Sirus Trading & Services SPL         Mitsubish Electric Alaropa B.V. Ltd.         PPOCONT, Presov         SIMAP         Insubish Electric Larope B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch	Tinklu 229A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Pubertia U1/49, Temasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA TOZ, Malta           VIII LL, PAOLA PLA TOZ, Malta           VIII LL, PAOLA PLA TOZ, Malta           VIII LL, PAOLA PLA TOZ, Malta           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           VIII Z NOLIVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           Silvijasciji T S Nolive, Norvay           Bod, Miguei da Cavarde Saavedra 301, Ton Norte Pilos 5, Col. Ampliación Granada, Midguei Idadigo, INO-5173 Codvik, Norvay           Bod, Miguei da Cavarde Saavedra 301, Ton Norte Pilos 5, Col. Ampliación Granada, Midguei Idadigo, INO-800, SINTAN           Vencida Argentia 2201, Carcentar Edata Cor Yorte, Colas Core, Colas Colas Colas Core and Colas Colas Core and Colas	4370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +560 (0)1-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)1-6487-911           +847-478-2100           +47 (0)5-506000           +42-25 6307-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-(0)2-256-8042           +63-(0)2-256-8042           +63-(0)2-258-8042           +63-(0)2-258-8042           +63-(0)2-258-8041           +63-(0)2-258-8042           +42 (0)27-430-40-06           +77 (0)21-430-40-06           +77 (192)           +65-6472-2070           +96-1-4770149           +65-6472-2070           +421 (0)27-1420 472           +421 (0)27-1420 472           +421 (0)27-1420 472           +441 (0)27-001           +44 (0)30-65-3131           +46 (0)30-66-3131           +46 (0)30-680-6131           +46 (0)30-680-6131           +46 (0)30-680-6131           +46 (0)30-680-6131           +46 (0)30-680-6131           +4
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America Northay Mexico Middle East Arab Courtries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Siovenia Slovakia Siovenia South Africa Spain Sweden Sweden Sweden Sweden	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         AL-PTRADE LTD         SCHELE MAROC         Peace Myanner Electric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SA.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubishi Electric Europe B.V. Polish Branch         Intehsis SRL         Mitsubishi Electric Guose SRL         Mitsubishi Electric Asia Pte.Ltd.         PROCONT, Presov         SIMAP         Inea BET d.o.o.         Center of Electric Cause SRL         Mitsubishi Electric Asia Pte.Ltd.         PROCONT, Presov         SIMAP         Inea BET d.o.o.         Cell-electric: Iow voltage         Mitsubshi Electric Europe B.V. Spanish Branch	Tinklu 224, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Public 124, Temaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           91 PAOLA HILL, PAOLA PLA TOZ, Matta           ND137/139 Eotahaung Pagoda Boad, Boathaung Town Ship 11161, Yangon, Myanmar           ND137/139 Eotahaung Pagoda Boad, Boathaung Town Ship 11161, Yangon, Myanmar           NH 7.2 KOUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Eotahaung Pagoda Boad, Boathaung Town Ship 11161, Yangon, Myanmar           NH 7.2 KOUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Eotahaung Pagoda Boad, Boathaung Town Ship 11161, Yangon, Myanmar           KH 7.2 Schwitz           Stivijesciji, Tis Sh.U-3087 AC Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leinvikasen 438, NO: 5172 Godvik, Norvay           Bird, Miguel de Cevarates Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cluadd de Mukoico, CP 11520, Mexico           Cebaco Center - Block A Autostrade Dora RO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Argenia ZOD, creato de Lima           126, Lopez Rizal St., Brgy, Highway Hills, Mandatuyong City, Metro Manila, Phillippines           Yath Fr, Galleria Goroprate Carlerad de Lima <td>4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (2)1-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477 (2)55-50000           +52-55-3067-7511           +961-1-240430           +92-42-572222, 5753373           +51-1-464-4459           +63-(0)2-234-8691           +481 (2)2-46-4242           +435 (2)2-43-4691           +473 (0)2-226-6-4242           +463 (2)2-43-4691           +421 (0)21-730-66-472           +421 (0)21-730 472           +421 (0)21-730 472           +421 (0)32-730 472           +436 (0)1-513-8116           +27-(0)11-9282000           +441 (0)30-960040           +411(0)25-25821-0-00           +441 (0)302-450040           +411(0)32-228-889           +66-223-220-3</td>	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (2)1-697-816           +212 661 45 15 96           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477 (2)55-50000           +52-55-3067-7511           +961-1-240430           +92-42-572222, 5753373           +51-1-464-4459           +63-(0)2-234-8691           +481 (2)2-46-4242           +435 (2)2-43-4691           +473 (0)2-226-6-4242           +463 (2)2-43-4691           +421 (0)21-730-66-472           +421 (0)21-730 472           +421 (0)21-730 472           +421 (0)32-730 472           +436 (0)1-513-8116           +27-(0)11-9282000           +441 (0)30-960040           +411(0)25-25821-0-00           +441 (0)302-450040           +411(0)32-228-889           +66-223-220-3
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America North America Mexico Mexico Mexico Mexico Mexico Palastan Peru Philippines Peru Philippines Peru Potand Republic of Moldova Romania Saudi Arabia Saudi Arabia Saudi Arabia Singapore Siovakia Siovania Siovania South Africa South Africa	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALFATRADE LTD         SCHELE MAROC         Paces Maymare Electric Co.Ltd.         Watt&Voit House         Timech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scamelec AS         Scamelec AS         Mitsubishi Electric Automation, Inc.         Scamelec AS         Mitsubishi Electric Generale-International-S.A.L.         Prince Electric Co.         Rhous S.A. (Branch offica)         Mitsubishi Electric Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electric Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electrica Goods         Mitsubishi Electrica Goods         Mitsubishi Electric Asia Pte. Ltd.         PROCONT, Presson         SIMAP         Mitsubishi Electric Europe B.V. Scandinavia         Euro Energy Components AB         Trelice AG         Setsuoy Entreprise Q.2, Ltd.         United Trading & Import Co., Ltd.         United Trading & Import Co., Ltd.         United Total Electric Co.	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 10, Jimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Matta           99 PAOLA HILL, PAOLA PLA TYO2, Matta           NUT, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           ND137/139 Botahaung Pagoda Road, Botahtaung Town Shipi 1161 (Yangon, Myanmar           KH 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           ND137/139 Botahaung Pagoda Road, Botahtanung Town Shipi 1161 (Yangon, Myanmar           KH 2, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisegiciji TS, NL-3007 A. Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leinvikasan 438, No-5173 Godvik, Orvay D           Bivd, Miguel Heidago, Cludad de Mexico, CP 11520, Mexico           Cebaco Center - Biock A Autostrade Dora PCO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Agentina 2201, Corcado de Lima           128, Lopez Rizal SL, Brigy, Fighway Hills, Mandaluyong City, Metro Manila, Phillippines           129, Lopez Rizal SL, Brigy, Fighway Hills, Mandaluyong City, Metro Manila, Phillippines           129, Hong 200 Explana, Modova           120, Lopez Rizal SL, Bright Miguandu Morin N: 2           120, Hill, Lon	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-1697-161           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +447-478-2100           +47 (0)5-506000           +52-55-3067-7511           +961-1-240430           +92-42-575222, 5753373           +53-602, 245-6042           +63-602, 245-6042           +63-602, 245-6042           +46-621-430-60-66           +7.695-71704           +85-617-2308           +421 (0)47-7880 611           +421 (0)47-7880 611           +421 (0)47-7880 613-8116           +421 (0)47-7880 613-8116           +421 (0)47-7880 613-8116           +421 (0)47-828000           +434 (0)93-668-313           +46 (0)30-6960-44           +41 (0)92-7280-8198           +46 (0)30-6960-44           +41 (0)92-7280-82842           +486-702-2208-8899           +686-702-2208-8899           +696-223-4220-3           +696-728-4228-8899           +696-728-4228-8899           +696-728-728-8899           +696-728-728-8899<
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Saudi Arabia Saudi Arabia Singapore Slovakia Slovenia Slovakia Slovenia Slovakia Slovenia Slovakia Slovenia Slovakia Slovenia Sweden Sweden Sweden Talwan	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHELE MAROC         Paces Myammar Electric Co.,Ltd.         Watt&Voit House         Imtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S A.L.         Prince Slextin Co.         Prinon SA. (Branch office)         Mitsubish Electric Automation Philippines Inc.         Edions Electric Integrated, Inc.         Mitsubish Electric Furope B.V. Polish Branch         Intents SRL         Sirus Trading & Services SRL         Mitsubish Electric Furope B.V. Elud.         PROCONT, Presov         SiMAP         Cell-electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubis	Tinklu 229A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1047, Imanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HLL, PAOLA PLA TOZ, Malta           99 PAOLA HLL, PAOLA PLA TOZ, Malta           N0137/139 Exothatung Pagaged Boad, Boathatung Town Ship 11161 Yangon, Myanmar           N0137/139 Exothatung Pagaged Boad, Boathatung Town Ship 11161 Yangon, Myanmar           KHA 2, 265 Volt House Dilibazar Post Box2108,Kaltmandu, Nepal           Stulispisciji TS, NL-3087 A RG Roterdam, Netheralands           S00 Concorate Woods Parkway, Vernon Hills, L 60061 USA           Lainrikasen 458, NO-5179 Goddik, Norray           Bird, Migual de Cavvintes Saavedra 301, Torne Norte Pios 5, Col. Ampliación Granada, Migual Hidaigo, Ciudad de México, CP 11520, México           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Averida Agentia 2201, Cercuret Edita C: Origas Ave., Ouezon City Metro Manila, Philippines           128th FL Galleria Corporate Center Edita C: Origas Ave., Ouezon City Metro Manila, Philippines           Varth FL Galleria Corporate Center, Edita C: Origas Ave., Ouezon City Metro Manila, Philippines           Varth FL Galleria Corporate Center, Edita C: Origas Ave., Ouezon City Metro Manila, Philippines           Varth FL Galleria Corporate Centerer, Edita C: Origas Ave., Ouezon City Metro Manila, Philippines<	+370 (0)45-582-728           +603-5569-3748           +603-5569-3748           +603-5569-3748           +603-5569-3748           +556 (0)21-697-816           +212 661 45 15 96           +977-1-4411330           +371 (0)10-687-911           +477-478-2100           +47 (0)55-506000           +52-55-3067-7511           +961-1-240430           +52-55-3067-7511           +51-1-464-4449           +63-0(2)-256-8042           +63-0(2)-268-4042           +63-0(2)-268-4042           +63-0(2)-268-4041           +472 (0)27-430-40-06           +77 095 721-2070           +966-1-4770149           +965-6473-2308           +421 (0)27-2304 72           +421 (0)27-2304 72           +421 (0)27-2304 72           +441 (0)93-65-3131           +441 (0)93-65-3131           +441 (0)93-65-3131           +441 (0)27-2298-8889           +682-023-24220-03           +481 (0)9-223-10-00           +471 (0)27-2298-8889           +682-023-24220-3           +682-023-28600
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America North America North America Middle East Arab Countries & Cypus Pakistan Peru Philippinas Peru Philippinas Peru Philippinas Peru Philippinas Saudi Arabia Singapore Slovakia Slovenia Sovakia Slovenia Sovakia Slovenia Sovakia Slovenia Suvakia Slovenia Sweden Sweden Sweden Sweden Sweden Sweden Sweden Sweden Staran	Rifas UAB         Mittric Sdn Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHELE MAROC         Peace Myanne Telectric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S.A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubishi Electric Europe B.V. Polish Branch         Intehsi SRL         Mitsubishi Electric Europe B.V. Polish Branch         Mitsubish Electric Aisa Pre. Ltd.         PROCONT, Presov         SIMAP         OBL-electric: Low ooftage         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Scandinavia)         Euro Energy Components AB         TriElec	Tinklu 229A, LT-5300 Panevezys, Lihtuania           No. 5 Jalan Public 129A, JE-5300 Panevezys, Lihtuania           Ro. 5 Jalan Public 129A, JEP Subang, Jaya, 47620 Selargor Darul Ensan, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selargor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TO2, Matta           FM 72 NOUVELLE ROUTE DE RABAT 740N SEBAA, 2060 Casablanca, Maroco           N0137/139 Exothatung Pagoda Boad, Botathatung Tovm Ship 11161, Yangon, Myanmar           KH 72 ACUVELLE ROUTE DE RABAT 74N SEBAA, 2060 Casablanca, Maroco           N0137/139 Exothatung Pagoda Boad, Botathatung Tovm Ship 11161, Yangon, Myanmar           KH 72 A55, Vol. 7407 AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leirvikasen 438, No-5179 Codvik, Norway           Bivd, Miguel Hed Cervarites Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cluadad de Mavico, CP 11520, Maxico           Questaria St., Brgy, Highway Hills, Mandaluyong City, Metro Manila, Phillippines           24P G CulLBERG II, LAHORE, 54600, PAKISTAN           Avenida Argenta Corporate Certer, Edas Cr. Origas Ave., Quezon City Metro Manila, Phillippines           Vath FL, Gallera Corporate Certer, Edas Cr. Origas Ave., Quezon City Metro Manila, Phillippines           Vath FL, Alenta Road, Mitsubiney, Moldova           RO-606041 Bucuresti, Sector 6 Aleea Lacul Mori Nr. 3           Did J, LeintikoseXaya street, Moscow, 115114, Russia	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (295-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4459           +63:(0)2-236-8042           +63:(0)2-243-4691           +43:373 (0)2-266-4242           +46:(0)2-1-337-60-66           +77 (957-12-070           +986-1-4770149           +95-647-22306 611           +421 (0)27-1430 472           +386 (0)1-513-8116           +27-(0)1-92200           +34 (0)93-565-3131           +46 (0)9-6225-10.00           +41 (0)52-6258422           +480 (0)-2229-8889           +65-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-422-3           +66-223-422-3           +66-223-422-3           +66-223-422-3
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Mexico Middle East Pakistan Peru Pakistan Peru Philippines Peru Poland Republic of Moldova Romania Saudi Arabia Saudi Arabia Singapore Siovakia Siovania Siovania Sovath Africa Solut Arfrica Solut Arfrica Suda Arfrica Solut Arfrica Solut Arfrica Subala Subala Subala	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALFATRADE LTD         SCHELE MARCC         Deace Marmar Electric Co.Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scamelec AS         Comptoir d'Electric Cacenerale-International-S.A.L.         Prince Electric Co.         Rhous S.A. (Branch offica)         MELCO Factory Automation Philippines Inc.         Ector Co.         Rhous S.A. (Branch offica)         Mitsubish Electric Europe B.V. Polish Branch         Intsubish Electric Government         Center of Electric Europe B.V. Polish Branch         Intsubish Electric Alsonge Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Barope B.V. Polish Branch         Intsubish Electric Barope B.V. Construction         Mitsubish Electric Alsonge Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Alsonge Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Alsonge Inc.         Electric Integrated, Inc.         Mitsubish Electric Alsonge Inc.         Filectric Alsonge Inc.         SiMAP         Ineas BPI d.o	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1990, Jimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Matta           99 PAOLA HILL, PAOLA PLA TYO2, Matta           NUTL, PAOLA PLA TYO2, Matta           Stulisegiciji TSS, NL-3007 AR OR Bood, Bood, Botathaung Town Shipi T161 (Yangori, Myanmar           NUTL, YAOLUYELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/198 Detahaurg Pagoda Road, Botathaurg Town Shipi T161 (Yangori, Myanmar           KHA 7, 265, Volt House Dilibazza Post Box:2108, Kathmandu, Nepal           Stulisegiciji TSS, NL-3007 AR OR Roterdam, Netherlands           Stulisegiciji TSS, NL-3007 AR Ortorik, Netword           Bivd, Miguel Heidag, Oclidad de Mexico, CP 11520, Mexico           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-9 CULLBERG II, LAHODE, Sed00, PAKISITAN           Avadida Argentina 2201, Carcado de Lines, Mandaluyong City, Metro Manila, Philippines           248, FR, Galienia Ca., Digit Eighwin Hills, Mandaluyong City, Metro Manila, Philippines           241, Leinkowskaya street, Moscow, 115114, Fuesia           242, La	4370 (0)45-582-728           +4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +447-478-2100           +47 (0)5-506000           +52-55-3067-7511           +961-1-240430           +92-42-57522, 5753373           +51-1464-4459           +63-092-256-8042           +63-092-26-6842           +40-021-430-40-66           +43 12 347 65 00           +471 (0)52-7580 611           +472 (0)51-7580 611           +421 (0)1-786 011           +421 (0)1-7860 611           +421 (0)1-7860 611           +421 (0)1-7860 611           +421 (0)1-7860 611           +421 (0)1-7860 611           +421 (0)1-7860 611           +421 (0)1-78280 01           +44 (0)30-26-313 416           +421 (0)1-52-8258425           +486-002-228-8489           +662-092-8600           +662-092-8600           +662-092-8600           +662-092-8600           +662-092-8600           +616-7144 4599
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Courtries & Cyprus Pakistan Peru Philippines Peru Philippines Peru Philippines Poland Republic of Moldova Romania Romania Saudi Arabia Singapore Slovakia Slova Slova Slova Slova Slova	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         AL-PATRADE LTD         SCHELE MAROC         Peace Myammar Electric Co.Ltd.         Watt&Voit House         Intrach Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Comptoir d'Electricite Generale-International-SAL         Prince Electric Co.         Rhona SA. (Branch office)         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SAL         Prince Electric Co.         Rhona SA. (Branch office)         Mitsubishi Electric Rurope B.V. Polish Branch         Intenhasi SRL         Mitsubishi Electric Rurope B.V. Polish Branch         Mitsubishi Electric Rurope B.V. Scandinavia)         Sirus Trading & Services SRL         Mitsubishi Electric Furgos B.V. Scandinavia)         Electric Cox on QC         Cell-electric Rurope B.V. Scandinavia)         Euro Energy Components AB         Triefice AG         Setsuyo Entergrise Co., Ltd.         Mitsubishi Electric Europe B.V. Scandinavia)         Euro Energy Components AB         Triefice AG         Setsuyo Entergrise Co., Ltd.         Unindet	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1047, Imanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           ND137/139 Datahaurp Pagoda Boad, Boadhaurang Town Shipi 1161 Yangon, Myanmar           ND137/139 Exolathaurp Pagoda Boad, Boadhaurang Town Shipi 1161 Yangon, Myanmar           KHA 2, 265,Voli House Oilibazar Post Box2108,Kathmandu, Nepal           Stulispisciji T, Sh. N.3087 7A R. Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Lienvikasen 483, NO-5173 Gordvik, Norray           Bird, Migual Ed Cervantes Saavedra 301, Torre Norte Pios 5, Col. Ampliación Granada, Migual Hidago, Ciudad de Makoco, CP 11520, Makco           Quel LERGA II, LAHORE, 54600, PAKISTAN           Avenida Agentia 2201, Carcenter, Edsa Cr. Origas Ave., Quezon City Metro Manila, Philippines           124. Lopez Rizal SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           H7 R, Galleria Corporate Corter F, Edsa Cr. Origas Ave., Quezon City Metro Manila, Philippines           H7 R, Galleria Corporate Corter R, Edsa Cr. Origas Ave., Quezon City Metro Manila, Philippines           H7 R, Galleria Corporate Corter R, Edsa Cr. Origas Ave., Quezon City Metro Manila, Philippines           H7 R, Galleria Coroparate Corener, Edsa Cr. Origas Ave., Quezon City Metro Manila,	4370 (0)45-582-728           +403-5569-3748           +603-5569-3748           +603-5569-3748           +560 (2)1-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +477-478-2100           +47 (0)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-44459           +63-002-258-8042           +63-002-258-8042           +63-002-243-8601           +473 (0)2-266-4242           +40-0021-430-40-66           +77 (9)51-7580 611           +421 (0)27 470 472           +421 (0)327 470 472           +421 (0)327 470 472           +436 (0)-53-311           +46 (0)-622-50-1000           +44 (0)300-690040           +41 (0)27-288-8889           +66-223-28-8889           +66-223-28-8800           +41 (0)27-289-8860           +420-9224-928-880           +66-223-8420-3           +66-223-8420-3           +66-229-28-8800           +21-692-71 474 599           +90-216-992-2666
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America North America Middle East Arab Countries & Cypus Pakistan Peru Philippines Peru Philippines Poland Republic of Midova Romania Repain Saudi Arabia Sitovenia Saudi Arabia Sitovenia South Africa Spain Sweden Sweden Sweden Sweden Sweden Sweden Sweden Sweden Takwa Thailand Tunista	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALAFTRADE LTD         SCHELE MAROC         Paces Maynmar Electric Co.Ltd.         Watt&Volt House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Comptoir d'Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc.         Scanelec AS         Mitsubish Electric Automation, Inc.         Prince Electric Co.         Prince Electric Co.         Rhona S.A. (Branch office)         Rhona S.A. (Branch office)         Rhona S.A. (Branch office)         Rhona S.A. Branch office)         Mitsubishi Electric Europe B.V. Polish Branch         Mitsubishi Electric Asia Pie. Ltd.         PROCONT, Presov         SIMAP         Inea RET d.o.o.         CBI-electric Europe B.V. Spanish Branch         Mitsubishi Electric Europe B.V. Scandinavia)         Euro Energy Components AB         TriEl	Tinklu 29A, LT-5300 Panevezys, Lihuania           No. 5 Jalan Public 104, Jimanya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Matta           M. 72 NOUVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           N0137/139 Exothanung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           KH 7, 2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 2060 Casablanca, Maroco           N0137/139 Exothanung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           KH 2, 265, Vich House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulgisediji T, Sh.U.3087, AG Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, No:5179 Godvik, Orvay J           Bivd, Miguel de Carvantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makico, CP 11520, Makico           Quebea Canter - Block A. Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, 54600, PAKISTAN           Avenida Argentina 2201, Carcado de Lima           128, Lopez Rizal SL, Birgy, Hightway Hills, Mandaluyong City, Metro Manila, Phillippines           124th FL Galleria Corporate Carre Alexan Locul Morin Nr. 3           126, Leintinko Kadaga           126, Juta Hinde Road, Misubishinev, Moldova           127, SL, 4000 Presov, Slovakia	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (2)1-697-816           +212 661 45 15 36           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232 (5753373)           +51-1-464-459           +63-(0)2-256-8042           +63-(0)2-243-4691           +4373 (0)2-66-4242           +4373 (0)2-66-4242           +4373 (0)2-66-4242           +447 (0)51 -7580 611           +421 (0)21 -430-0(-66)           +47 (0)51 -7580 611           +421 (0)32 -243 04 12           +386 (0)1-513-8116           +27-(0)11-28200           +44 (0)30-690040           +41 (0)2-228-889           +66-223-4220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-27820-0           +216-71 44 59
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlandis North America North America North America Norway Mexico Middle East Arab Countries & Cyrus Palsistan Peru Philippines Peru Poland Republic of Moldova Romania Saudi Arabia Saudi Arabia Singapore Slovakia Slovania Slovania Sovath Africa Spalin Sweden Sweden Sweden Sweden Sweden Talwan Thaliand Tunisia Tunisia	Rifas UAB         Mittric Sch Bhd         Flexible Automation System Sch Bhd         ALFATRADE LTD         SCHELE MAROC         Paces Maymare Electric Co.Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scamelec AS         Comptoir d'Electric Ca.Centeral         Prince Electric Ca.         Prince Electric Co.         Rhoma S.A. (Branch offica)         MELCO Factory Automation Philippines Inc.         Eclion Electric Integrated, Inc.         Mitsubish Electric Automation, Philippines Inc.         Eclion Electric Integrated, Inc.         Mitsubish Electric Automation Philippines Inc.         Eclion Electric Integrated, Inc.         Mitsubish Electric Automation Philippines Inc.         Eclion Electric Integrated, Inc.         Mitsubish Electric Alexape SNL         SiMAP         Inea RBT d.o.o.         CBI-Electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 29A, LT-5300 Panevezys, Lithuania           Ro. 5 Jalan Public 2017           Ro. 5 Jalan Public 2017           9 PAOLA HILL, PAOLA PLA TYO2, Matta           9 PAOLA HILL, PAOLA PLA TYO2, Matta           9 PAOLA HILL, PAOLA PLA TYO2, Matta           ND137/139 Bothhaun Paogoda Road, Bothhaung Town Shipi 1161 (Yangon, Myanmar           ND137/139 Bothhaun Paogoda Road, Bothhaung Town Shipi 1161 (Yangon, Myanmar           KH 7, 2 NOLIVELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           ND137/139 Bothhaun Paogoda Road, Bothhaung Town Shipi 1161 (Yangon, Myanmar           KHA 2, 65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisediji 155, NL-3007 AR Rotterdam, Netherlands           S00 Corporate Woods Parkway, Vernon Hills, L 60001 USA           Leinvikasan 458, NO-5171 Godovik, Norway           Bivd, Miguel Hidago, Cludad de Makoto, CP 11520, Mekico           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           224 OLU ERERG SL, Leinverse Hills, Mandatuyong City, Metro Manila, Philippines           274 LU ERERG SL, SL, Bygy, Harway Hills, Mandatuyong City, Metro Manila, Philippines           274 Ling Lang SL, Bygy, Harway Hills, Mandatuyong City, Metro Manila, Philippines           274 Ling LERG SL, Bygy, Harway Hills, Mandatuyong City, Metro Manila, Philippines           274 Ling Lang SL, Bygy, Haydo J, Hodokoya     <	4370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-911           +847-478-2100           +47 (0)5-506000           +52-55-3067-7511           +981-1-240430           +92-2-575232, 5753373           +53-002-256-8042           +63-002-256-8042           +63-002-256-8042           +40-021+430-40-60           +471 (2)55-50300           +52-692-265-8042           +40-021+430-40-60           +472 (2)151-7580 611           +421 (2)151-7580 611           +421 (2)151-7580 611           +421 (0)151-7580 611           +421 (0)151-7580 611           +421 (0)151-7580 611           +421 (0)151-7580 611           +44 (0)3270-32-412           +46 (0)300-966-3-311           +46 (0)300-92-86-314           +46 (0)300-92-86-314           +46 (0)300-92-86-314           +46 (0)300-92-82-8489           +662-922-8489           +662-922-8609           +216-71 474 599           +460 (2)72-7610.0
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Courties & Cyprus Pakistan Peru Pakistan Peru Philippines Poland Republic of Moldova Romania Romania Saudi Arabia Siovakia Slova Slova Slova Slova Slova Slova Slova S	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         AL-PATRADE LTD         SCHELE MAROC         Peace Myamar Electric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubishi Electric Automation, Inc.         Scanelec AS         Mitsubishi Electric Automation, Inc.         Scanele CAS         Mitsubishi Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-S A.L.         Prince Electric Co.         Rhona S.A. (Branch office)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubishi Electric Gurope B.V. Polish Branch         Mitsubishi Electric Russig) LLC         Center of Electric Case SRL         Mitsubishi Electric Europe B.V. Spanish Branch         Mitsubishi Electric Europe B.V. Spanish Branch </td <td>Tinklu 229A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 129A, LT-5300 Panevezys, Lithuania           Ro. 5 Jalan Public 129A, Depote 129A, 2012           80, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOR2, Malta           99 PAOLA HILL, PAOLA PLA TOR2, Malta           99 PAOLA HILL, PAOLA PLA TOR2, Malta           10/137/139 Dotahaung Paogoda Road, Botahaung Town Shipi 1161 Yangon, Myanmar           KN 7.2 NCUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/139 Dotahaung Paogoda Road, Botahaung Town Shipi 1161 Yangon, Myanmar           KHA 2.65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stiulisediji LS, NU-3097 A.6 Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leinvikasen 438, NO-5173 Codirk, Norvay           Bird, Miguel Hidago, Cludad de Makoco, CP 11520, Makco           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHONE, 54600, PAKISTAN           Avenida Argenita 2201, Cacrad de Marko, CP 11520, Makco           128, Lopez Rizil SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           124th FL, Galleria Corporate Cardo de Lima           128, Lopez Rizil SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           124th FL, Galleria Coroprate Cardo de Lima</td> <td>1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (0)55-505000           +52-55-3067-7511           +981-1-240430           +52-45-26322, 5753373           +51-1-464-4459           +63-(0)2-236-8042           +63-(0)2-234-4691           +43-(2)2-46-424           +43-(2)2-43-4691           +4312 (0)22-46-4242           +453-(0)2-434-6891           +441 (0)21-430-40-66           +77 (0)17-48           +56-473-2308           +421 (0)21-473 04 72           +421 (0)32-743 04 72           +438 (0)1-513-8116           +27-(0)11-922000           +34 (0)30-690040           +41+(0)52-253-10-00           +446 (0)8-622-10-00           +466 (2)-322-88489           +66-223-220-3           +66-223-220-3           +662-203-28-6809           +662-203-20-8008           +598-2-902-2080           +598-2-902-0808</td>	Tinklu 229A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 129A, LT-5300 Panevezys, Lithuania           Ro. 5 Jalan Public 129A, Depote 129A, 2012           80, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOR2, Malta           99 PAOLA HILL, PAOLA PLA TOR2, Malta           99 PAOLA HILL, PAOLA PLA TOR2, Malta           10/137/139 Dotahaung Paogoda Road, Botahaung Town Shipi 1161 Yangon, Myanmar           KN 7.2 NCUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           NO137/139 Dotahaung Paogoda Road, Botahaung Town Shipi 1161 Yangon, Myanmar           KHA 2.65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stiulisediji LS, NU-3097 A.6 Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, L 60061 USA           Leinvikasen 438, NO-5173 Codirk, Norvay           Bird, Miguel Hidago, Cludad de Makoco, CP 11520, Makco           Cebaco Center - Block A Autostrade Dora PO. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHONE, 54600, PAKISTAN           Avenida Argenita 2201, Cacrad de Marko, CP 11520, Makco           128, Lopez Rizil SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           124th FL, Galleria Corporate Cardo de Lima           128, Lopez Rizil SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           124th FL, Galleria Coroprate Cardo de Lima	1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +477 (0)55-505000           +52-55-3067-7511           +981-1-240430           +52-45-26322, 5753373           +51-1-464-4459           +63-(0)2-236-8042           +63-(0)2-234-4691           +43-(2)2-46-424           +43-(2)2-43-4691           +4312 (0)22-46-4242           +453-(0)2-434-6891           +441 (0)21-430-40-66           +77 (0)17-48           +56-473-2308           +421 (0)21-473 04 72           +421 (0)32-743 04 72           +438 (0)1-513-8116           +27-(0)11-922000           +34 (0)30-690040           +41+(0)52-253-10-00           +446 (0)8-622-10-00           +466 (2)-322-88489           +66-223-220-3           +66-223-220-3           +662-203-28-6809           +662-203-20-8008           +598-2-902-2080           +598-2-902-0808
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America Norway Mexico Middle East Arab Countries & Cypus Pakistan Peru Philippines Peru Philippines Peru Philippines Peru Philippines Saudi Arabia Stagapore Slovakia Slovenia South Africa Spain Sweden	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALAFTRADE LTD         SCHELE MAROC         Paces Maynmar Electric Co.Ltd.         Watt&Volt House         Timtech Marine & Offshore B.V.         Mittsubish Electric Automation, Inc.         Scanelec AS         Comptoir d'Electric Romation, Inc.         Scanelec AS         Mittsubish Electric Automation, Inc.         Scanelec AS         Mittsubish Electric Automation, Inc.         Scanelec AS         Mittsubish Electric Romation Philippines Inc.         Edison Electric Infegrated, Inc.         Mittsubish Electric Europe B.V. Polish Branch         Mittsubish Electric Russig ULC         Center of Electrica Goods         Mittsubish Electric Europe B.V. Spanish Branch         Mittsubish Electric Europe B.V. Spanish March         Mittsubish Electric Europe B.V.	Tinklu 229A, LT-S300 Panevezys, Lihuania           No. 5 Jalan Public 129A, Janaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TYO2, Matta           99 PAOLA HILL, PAOLA PLA TYO2, Matta           NM 7.2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Botahaung Pagoda Road, Botahuang Town Ship 11161 Yangon, Myanmar           KH 7.2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Botahaung Pagoda Road, Botahuang Town Ship 11161 Yangon, Myanmar           KH 2.455,Voit House Dilibazar Post Box:2108,Kathmandu, Nepal           Stulgisediji TS, NL-3087 A.6 Rotterdam, Netherlands           500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA           Leirvikasan 438, NO:5179 Goddik, Norway           Bivd, Miguel de Carvantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Mkico, CP 11520, Mexico           Cebaco Canter - Block A. Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon           2-P GULBERG II, LAHORE, S4600, PAKISTAN           Avenida Argentina 2201, Carcado de Lima           128, Lopez Rizal SL, Birgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           1241 FL, Galleria Corporate Conter, Edas Cr. Ortigas Ave., Quezon City Metro Manila, Philippines           Vark Andra Road, Misubiblinev, Molotova           RO-060641 B	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-1697-816           +212 661 45 15 36           +95-(0)1-202589           +977-1-4411330           +31 (0)10-487-19 11           +847-478-2100           +47 (2)55-506000           +52-55-3067-7511           +961-1-240430           +92-42-575232, 5753373           +51-1-464-4459           +63-(0)2-256-8042           +63-(0)2-243-4691           +4373 (0)2-66-4242           +40-(0)21-430-40-66           +77 (4)9           +56-647-22070           +68-6472-247014           +461 (0)8-7580 611           +421 (0)32-743.04 f12           +421 (0)32-743.04 f12           +421 (0)32-743.04 f12           +461 (0)8-625-31.31           +46 (0)8-625-31.31           +46 (0)8-625-31.00           +41 (0)2-728-00           +41 (0)2-728-00           +41 (0)2-728-00           +44 (0)70-72-278-00           +421 (0)32-728-00           +44 (0)70-72-278-00           +41 (0)2-72-78-00           +44 (0)2-72-78-100           +46 (2)8-422-3
Lithuania Malaysia Mata Marco Marco Mayanmar Nepal Netherlandis North America North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Paru Philippines Peru Poland Peru Poland Republic of Moldova Romania Saudi Arabia Saudi Arabia Singapore Slovakia Slovania Slovania South Africa Spalin Sweden Sweden Sweden Sweden Talwan Thaliand Tunisia Tunisia Tunisia	Rifas UAB         Mittric San Bhd         Flexible Automation System San Bhd         ALFATRADE LTD         SCHELE MAROC         Paces Maynmar Electric Co.Ltd.         Watt&Voit House         Timtech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scamelec AS         Comptoir d'Electric Generale-International-S.A.L.         Prince Electric Co.         Rhoma S.A. (Branch offica)         MELCO Factory Automation Philippines Inc.         Edison Electric Integrated, Inc.         Mitsubish Electric Europe B.V. Polish Branch         Intehsis SRI.         Sirius Trading & Services SPI.         Mitsubish Electric Europe B.V. Polish Branch         Intehsis SRI.         Sirius Trading & Services SPI.         Mitsubish Electric Alsonge D.         PROCONT, Presov         SMAP         Insa RBT d.o.o.         CBI-electric: Europe B.V. Spanish Branch         Mitsubish Electric Europe B.V. Spanish Branch </td <td>Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 29A, LT-5300 Panevezys, Lithuania           Ro. 5 Jalan Public 2017           Ro. 5 Jalan Public 2017           9 PAOLA HILL, PAOLA PLA J, Tamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           99 PAOLA HILL, PAOLA PLA J, Tamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           99 PAOLA HILL, PAOLA PLA J, TOZ, Mata           KM 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothahung Pagoda Road, Bothathung Town Ship In161 (Yangon, Myanmar           KHA 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothahung Pagoda Road, Bothathung Town Ship In161 (Yangon, Myanmar           KHA 7, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisedii, TIS, Sh.U-3007 AR O Rotterdam, Netherlands           Stulisedii, TIS, Sh.U-3007 AR O Rotterdam, Netherlands           Stulisedii, Tors, Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makoto, CP 11520, Mexico           Cebaco Center - Block A Autostrado Dora P.O. Box 11-1314 Beirut - Lebanon           22 - 401. EBRE HIL, LAMORE Schoo, PARISTAN           Arabida Argentina 2201, Carcado de Lima           128. Longe, Rizel SJ. Boyr, Honway Hills, Mandaluyong City, Metro Manila, Philippines           128. Longe, Rizel SJ. Boyr, Honway Hills, Mandaluyong City, Metro Manila, Philippines           129. Longe, Rizel SJ. Bo</td> <td>1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-911           +847-7-1-4411330           +31 (0)10-487-911           +847-7478-2100           +47 (0)55-50000           +52-55-3067-7511           +981-1-1-240430           +92-42-575232, 5753373           +95-092-256-8042           +63-092-256-8042           +63-092-265-8042           +60-021-430-40-60           +748 723-405 40-20           +65-6473-2308           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)51 - 7580 611           +421 (0)51 - 7580 611           +421 (0)52-2258425           +486-0)22-228-8899           +662-922-8402           +662-922-8402           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3</td>	Tinklu 29A, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 29A, LT-5300 Panevezys, Lithuania           Ro. 5 Jalan Public 2017           Ro. 5 Jalan Public 2017           9 PAOLA HILL, PAOLA PLA J, Tamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           99 PAOLA HILL, PAOLA PLA J, Tamaya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           99 PAOLA HILL, PAOLA PLA J, TOZ, Mata           KM 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothahung Pagoda Road, Bothathung Town Ship In161 (Yangon, Myanmar           KHA 7, 2 NOLVIELLE ROUTE DE FABAT AIN SEBAA, 20600 Casablanca, Maroco           NO137/139 Bothahung Pagoda Road, Bothathung Town Ship In161 (Yangon, Myanmar           KHA 7, 265, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal           Stulisedii, TIS, Sh.U-3007 AR O Rotterdam, Netherlands           Stulisedii, TIS, Sh.U-3007 AR O Rotterdam, Netherlands           Stulisedii, Tors, Norte Piso 5, Col. Ampliación Granada, Miguel Hidago, Cludad de Makoto, CP 11520, Mexico           Cebaco Center - Block A Autostrado Dora P.O. Box 11-1314 Beirut - Lebanon           22 - 401. EBRE HIL, LAMORE Schoo, PARISTAN           Arabida Argentina 2201, Carcado de Lima           128. Longe, Rizel SJ. Boyr, Honway Hills, Mandaluyong City, Metro Manila, Philippines           128. Longe, Rizel SJ. Boyr, Honway Hills, Mandaluyong City, Metro Manila, Philippines           129. Longe, Rizel SJ. Bo	1370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +603-5669-3748           +560 (0)2-1697-816           +212 661 45 15 96           +977-1-4411330           +31 (0)10-487-911           +847-7-1-4411330           +31 (0)10-487-911           +847-7478-2100           +47 (0)55-50000           +52-55-3067-7511           +981-1-1-240430           +92-42-575232, 5753373           +95-092-256-8042           +63-092-256-8042           +63-092-265-8042           +60-021-430-40-60           +748 723-405 40-20           +65-6473-2308           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)47 - 7580 611           +421 (0)51 - 7580 611           +421 (0)51 - 7580 611           +421 (0)52-2258425           +486-0)22-228-8899           +662-922-8402           +662-922-8402           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3           +662-922-8422-3
Lithuania Malaysia Mata Marco Marco Myanmar Nepal Netherlands North America North America North America Northay Mexico Middle East Arab Courtries & Cyprus Pakistan Peru Philippines Peru Philippines Poland Republic of Moldova Romania Romania Saudi Arabia Silovenia Slovakia Slova Slo	Rifas UAB         Mittric San Bhd         Flexible Automation System Sdn Bhd         ALAFTARDE LTD         SCHEILE MAROC         Peace Myamme Telectric Co.Ltd.         Watt&Voit House         Intech Marine & Offshore B.V.         Mitsubish Electric Automation, Inc.         Scanelec AS         Scanelec AS         Mitsubish Electric Automation, Inc. Mexico Branch         Comptoir d'Electricite Generale-International-SA.L.         Prince Electric Co.         Rhona S.A. (Branch office)         Mitsubishi Electric Runope B.V. Polish Branch         Mitsubishi Electric Guoge B.V. Polish Branch         Mitsubishi Electric Guoge B.V. Polish Branch         Mitsubishi Electric Guoge B.V.         Mitsubishi Electric Saia Pte. Ltd.         PROCONT, Presov         SIMAP         Center of Electric Co., Ltd.         Mitsubishi Electric Europe B.V. Spanish Branch         Mitsubishi Electric Europe B.V. Scandinavia)         Euro Energy Components AB         TriElec AG         Setsuyo Enterprise Co., Ltd.         MITSubishi Electric Turkey A.Ş. <td>Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1249, Jernasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 NGUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 NGUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 DotAting Coddk, Ronzey           Stivijesciji J155, NL-3087 AC Rotterdam, Netherlands           Stivijesciji J155, NL-3087 AC Rotterdam, Netherlands           Stivijesciji J160, Cludd de Mavico, CP 11520, Mavico           Velu BERG II, LAHORE, 54600, PAKISTAN           Averida Argenia 2201, Carcado de Lima           128, Lopez Rizi SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Phillippines           124th FL Galleria Coroprate Carcado de Lima           126, Lopez Rizi SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           Krakowska 48, 32-083 Balice, Poland           Lid. Train az 21, MD-2060 Kishinev, Moldova           RO-6060841 Bucuresti, Sactor 6 Aleea Lacul Mori Nr. 3<!--</td--><td>1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 36           +977-1-4411330           +371 (0)1-647-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477 (0)55-50000           +52-55-3067-7511           +961-1-240430           +92-42-575222, 5753373           +51-1-464-4459           +63-(0)2-236-4042           +63-(0)2-234-6691           +481 (0)21-430-40-06           +77 (0)71-226-6-4242           +400 (0)21-430-40-06           +77 (0)71-227030           +421 (0)21-4730 472           +421 (0)21-4730 472           +436 (0)+63-53-131           +44 (0)93-565-3131           +46 (0)+62-232-03           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-20-420-3           +66-223-20-3</td></td>	Tinklu 224, LT-5300 Panevezys, Lithuania           No. 5 Jalan Public 1249, Jernasya Industrial Park, Giermarie 40150 Shah Alam, Selangor, Malaysia           60, Jalan USJ 10/1B, UEP Subang, Jaya, 47620 Selangor Darul Ensan, Malaysia           99 PAOLA HILL, PAOLA PLA TOZ, Malta           99 PAOLA HILL, PAOLA PLA TOZ, Malta           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 NGUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 Dotahaung Pagoda Road, Botahuang Town Shipi J1161, Yangon, Myanmar           NH 7.2 NGUVELLE ROUTE DE FABAT AIN SEBAA, 2060 Casablanca, Maroco           ND137/139 DotAting Coddk, Ronzey           Stivijesciji J155, NL-3087 AC Rotterdam, Netherlands           Stivijesciji J155, NL-3087 AC Rotterdam, Netherlands           Stivijesciji J160, Cludd de Mavico, CP 11520, Mavico           Velu BERG II, LAHORE, 54600, PAKISTAN           Averida Argenia 2201, Carcado de Lima           128, Lopez Rizi SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Phillippines           124th FL Galleria Coroprate Carcado de Lima           126, Lopez Rizi SL, Brgy, Highway Hills, Mandaluyong City, Metro Manila, Philippines           Krakowska 48, 32-083 Balice, Poland           Lid. Train az 21, MD-2060 Kishinev, Moldova           RO-6060841 Bucuresti, Sactor 6 Aleea Lacul Mori Nr. 3 </td <td>1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 36           +977-1-4411330           +371 (0)1-647-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477 (0)55-50000           +52-55-3067-7511           +961-1-240430           +92-42-575222, 5753373           +51-1-464-4459           +63-(0)2-236-4042           +63-(0)2-234-6691           +481 (0)21-430-40-06           +77 (0)71-226-6-4242           +400 (0)21-430-40-06           +77 (0)71-227030           +421 (0)21-4730 472           +421 (0)21-4730 472           +436 (0)+63-53-131           +44 (0)93-565-3131           +46 (0)+62-232-03           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-20-420-3           +66-223-20-3</td>	1370 (0)45-582-728           +370 (0)45-582-728           +603-5669-3748           +603-5669-3748           +603-5669-3748           +556 (0)21-697-816           +212 661 45 15 36           +977-1-4411330           +371 (0)1-647-19 11           +847-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477-478-2100           +477 (0)55-50000           +52-55-3067-7511           +961-1-240430           +92-42-575222, 5753373           +51-1-464-4459           +63-(0)2-236-4042           +63-(0)2-234-6691           +481 (0)21-430-40-06           +77 (0)71-226-6-4242           +400 (0)21-430-40-06           +77 (0)71-227030           +421 (0)21-4730 472           +421 (0)21-4730 472           +436 (0)+63-53-131           +44 (0)93-565-3131           +46 (0)+62-232-03           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-220-3           +66-223-20-420-3           +66-223-20-3

Safety Tips: Be sure to read the instruction manual fully before using this product.

#### **Precautions Before Use**

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