

Energy Measuring Unit Insulation Monitoring Model **MODEL**



User's Manual (Details)

 Before operating the instrument, you should first read thoroughly this operation manual for safe operation and optimized performance of the product.
 Deliver this user's manual to the end user.

Safety precautions

Thank you for purchasing the Energy Measuring Unit (EcoMonitorPlus).

- This manual describes setup and usage for the Energy Measuring Unit. Before using the product, please read this manual carefully to ensure correct use. Especially, in the case of where this unit is to be installed, please read "1. Precautions for Use" to ensure correct use.
- Make sure that the end users read this manual and then keep the manual in a safe place for future reference.
- · Make sure to deliver this manual to the end-user.

• If you are considering using this unit for special purpose such as nuclear power plants, aerospace, medical care or passenger vehicles, please refer to our sales representative. (For details, please see at the end of this manual.)

Notations in this manual

Use the following marks in this manual.

Mark	Meaning of the icons
<u></u> ∆Danger	Indicates that incorrect handling may result in death or severe injury, ignoring this marking.
∕ ∆Caution	Indicates that incorrect handling may result in injury or property damage, ignoring this marking.
✓ Supplement	Indicates that precautions to avoid a malfunction and to work the unit properly.
	Indicates that the pages described that related matters.

Checking package contents

This following items for this device and included in package. Check that no items are missing.



User's Manual (Digest) x1

Energy Measuring Unit x1

This unit cannot be used for deal and proof of electric energy measurement stipulated in the measurement law. Please use the certified watt-hour meter to be used for deal and proof of electric energy measurement stipulated.

Related materials

Material name	Ref. No.
Energy Measuring Unit Programming Manual (CC-Link) For ver.1 remote device station	LEN160305
Energy Measuring Unit Programming Manual (CC-Link) For ver.2 remote device station	LNE160316
Energy Measuring Unit Programming Manual (CC-Link IE Field Network Basic) (SLMP)	LEN180123
MITSUBISHI Energy Measuring Unit EcoMonitorLight/EcoMonitorPlus Series MODBUS I/F Specification	LSPY-9025

Trademark

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In the text, trademark symbols such as "TM" and "®" may not be written.

Feature

- This unit can measure the leak current (Io) and leak current for resistance (Ior) for insulation monitoring to keep safety.
- You can construct flexible monitoring system because you can introduce individual products and expansion energy measuring unit and communication unit is easily.
- Leak current lo and leak current for resistance lor can be monitored 2 steps monitoring. You can use alarm as attention alarm and hazard alarm.
- To Storage the count of lo1-alarm, lo2-alarm, lor1-alarm and lor2-alarm and monitoring upper limit of alarm count is used as monitoring application based on frequency occurrence.
- 3 phase-4wire can be measured. (lo only)
- Leak current for resistance can be measured switching High SENS mode by 0.01mA steps.
- The measured data can be sent to the high-end device, such as a monitoring device by MODBUS RTU communication function.

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1.1 Precautions for Operating Environment and Conditions

This equipment, based on the assumption that it is used in the pollution degree 2 (Note 1) environment. If it is used in other degree of contamination, please do the protection on the device side to be incorporated. Measurement categories for measuring circuit for this equipment is CATIII (Note 1). The overvoltage category of the auxiliary power supply circuit (MA, MB) is CATIII (Note 1). Do not use the unit in any of the following places. Doing so may cause malfunction or reduction in service life.

- Place where the ambient temperature exceeds the working temperature range(-5°C to +55°C)
- Place where the humidity exceeds the humidity range (30% to 85%RH) or condensation occurs
- Place with much dust, corrosive gas, salt or oily smoke
- Place where the unit may be exposed to rain or drops of water

Place where metallic particles or inductive substances are dispersed

- $\mbox{-}$ Place where the daily mean temperature exceeds $35^\circ\mbox{C}$
- Place with much vibration or impact
- Place exposed to direct sunlight
- Place with strong electromagnetic field or much foreign noise
- Place where the altitude is over 2000m

This equipment is the open type equipment. (Electric shock protection of the instrument was designed to perform housed in another apparatus equipment). Please use are housed in a control panel etc. Always. For notes on when to adapt the equipment that you have configured in this equipment to the EMC Directive, please refer to 10. Requirement for the compliance with EMC Directives EMC.

Note 1 : For a definition of pollution degree and the measurement categories, please refer to the EN61010-1 / 2010.

1.2 Precautions for Use

- •Use the unit in the specified usage environment and conditions.
- •To set this unit, dedicated small-size display unit (EMU4-D65) is necessary. For the setting method, refer to User's manual (Details) of the display unit.

1.3 Instal	lation and connection				
⚠Danger	 Shut off the external power supply for the unit in all phases before installing or wiring. Failure to do so may cause an electric shock or damage of this unit. Work under the electric outage condition when installing and wiring. Failure to do so may cause electric shock, a failure of the unit, a fire etc. 				
			<u>∧</u> Caution		
< Precautio	ns for Electric work>				
 Any per 	erson who is involved in t	he installation and the	wiring of this unit should be fully competent to do this work.		
· Secure	spatial distance more th	an 100 mm in all dire	ctions (other than back)		
· When	tapping or wiring, take ca	are not to entering any	/ foreign objects such as chips and wire pieces into this unit.		
· Check	the connection diagram	when wiring. Wrong v	viring may cause failure of the unit, a fire or electric shock.		
· For pro	otection against noise, <u>t</u>	ransmission lines a	nd input/output lines shall not be placed close to or bound		
togeth	er with the power lines	and high-voltage lin	<u>105</u> .		
• The wi	res to be connected to t	his unit shall be place	d in a duct or fixed together by cramping. If the electric wires are		
not pla	ced in the duct or cramp	ed together, loosen w	rires or their movement or careless stretch may cause a breakage		
of the t	Init or wire or a malfuncti	on due to poor contac	X of electric wires.		
	mission lines and input/o	ouput lines are placed	for the input side of terminal block)		
lines, r	is concern about the	effects of noise ever	if the distances shown in the table below are increased it is		
recom	mended to use shielded	wires.			
Cor	dition	Distance			
Pov	/er line 600V or less	300mm or longer			
Oth	er power line	600mm or longer			
<connection< td=""><td>on of terminal block></td><td></td><td></td></connection<>	on of terminal block>				
 Strip th 	e wires with proper leng	th. Overlong stripping	length may cause short to next wire. Shorter stripping length may		
cause	contact failure.				
· Take c	are not to short to next te	rminal by a filament. (Do not plate the wires with solder.)		
• Do not	connect three or more w	/ires to one terminal o	f a terminal block for preventing loose contact and wires dropout.		
• Use ap	propriate size of electric	wires. It inappropriate	size of electric wire is used, it may cause a fire due to generated		
. Tightor	the corow within the cr	ocified terraue. Under	tightoning can cause drap of the screw short circuit or malfunction		
Over ti	ahtening can damage th	e screw and/or unit re	-sulting in drop, short circuit or malfunction		
· After ti	After tightening can damage the screws and/or unit, resulting in drop, short circuit or manufiction.				
a fire or electric shock.					
· Be sur	e to attach the terminal c	over to prevent electri	ic shock.		
 Use the 	e crimp-type terminal ap	propriated for the size	e of electric wires. If inappropriate crimp-type terminal is used, a wire		
breaka	ge or a contact failure m	ay occur, which may o	cause a device malfunction, a failure, a burnout or a fire.		
· Frame	GND terminal must be g	rounded according to	the D-type ground (ground resistance is not exceed 100 Ω).		
 Do not 	directly touch any condu	uctive part of the unit. I	Doing so can cause electric shock, failure or malfunction of		
the uni	. Try touch any conducti	ve part of the unit. Doi	ing so can cause electric shock, failure or malfunction of the unit.		
 Do not 	input voltage and curren	it at NC terminals. Doi	ing so can cause failure or malfunction of the unit.		

<Connection to Zero phase current transformer>

- •When using this product, make sure to use it in combination with zero phase current transformer. Do not change input of zero phase current transfer higher than rated value. For further details, please refer to current sensor manual to maintain the functionality and accuracy of this product.
- •Zero phase current transformer is used only for low voltage circuit. It cannot be used for a high voltage circuit. If it is connected with a high-voltage circuit by mistake, it may cause a burnout of the device and a fire.
- The dedicated current sensor has a polarity (directionality). Be careful about it when installing the unit.
- •Zero phase current transformer (CZ, ZT series) is affected by the external magnetic field generated by current when ZCT is installed in the vicinity of the trunk line where large current flows as a result, an error occurs in the measured value. Please install the distance as shown in the below table with the trunk line.

Split type zero-phase current transformer

		CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ - 112 S
Current flowing in trunk line near ZCT	100A	100mm	100mm			
	300A	150mm	250mm	150mm	100mm	100mm
	500A					
	700A					
	1000A			250mm		
	2000A	250mm	450mm	450mm		

Through type zero-phase current transformer

		ZT15B	ZT30B	ZT40B	ZT60B	ZT80B	ZT100B		
1	100A								
Current flowing	300A								
in trunk line near ZCT	500A	100mm							
	700A	10011111							
	1000A								
2000A									

<Connection of frame GND terminal>

• Do not exceed the specified voltage when doing an insulation resistance test and a commercial frequency withstand voltage test. Do not connect to frame GND terminal during the insulation resistance test and pressure test.

- •Frame GND terminal must be grounded according to the D-type ground (ground resistance is not exceed 100Ω).
- To prevent persons with little knowledge about electric equipment from electric shock, panel must be taken either following measure.
 - Lock the panel so that only those who get an education about electric equipment and have sufficient knowledge can unlock, or shut off power supply automatically by opening the panel.
 - Cover the dangerous part of this unit. (Required protection code is higher than IP2X.)

1.4 Usage notes

• This unit cannot be used for deal and proof of electric energy measurement stipulated in the measurement law.

- Before operating the product, check that active bare wire and so on does not exist around the product. If any bare wire exists, stop the operation immediately, and take an appropriate action such as isolation protection.
- In the event of a power outage during the setting by Display unit / Communication line, the Energy Measuring unit is not set correctly. Please set again after power recovery.

Caution

- Do not disassemble or modify this unit. It may cause failure, malfunction, injury or fire.
- Use this unit within the ratings specified in this manual. If it is used outside the ratings, it may cause not only
 malfunction or failure but also fire burnout.
- Do not touch the live part such as connection terminal. It may cause electric shock, electric burn injury or burnout of the device. If any exposed conductor is found, stop the operation immediately, and take an appropriate action such as isolation protection.
- Push the RESET switch with an appropriate force (1.6N). The addition of force than necessary, it may cause a malfunction or failure of the Unit.

1.5 Maintenance Precautions

- Use a soft dry cloth to clean off dirt of the unit surface. Do not let a chemical cloth remain on the surface for an extended period of time nor wipe the surface with thinner or benzene.
- Check for the following items to use this unit properly for long time.
 - (1) Daily maintenance
 - (a) No damage on this unit
 - (b) No abnormality with LCD indicators
 - (c) No abnormal noise, smell or heat
 - (2) Periodical maintenance (Once every 6 months to 1 year)
 - No looseness with installation and wire connection

Caution Do periodical maintenance under the electric outage condition. Failure to do so may cause electric shock, failure of the unit or a fire. Tighten the terminal regularly to prevent a fire.

1.6 Storage Precautions

- To store this unit, turn off the power and remove wires, and put it in a plastic bag.
- For long-time storage, avoid the following places. Failure to follow the instruction may cause a failure and reduced life of the unit.
- unit.
 - •Places the Ambient temperature exceeds the range -10 +60°C.
 - Places the Relative humidity exceeds the range 30-85% or places with dewfall.
 - ·Dust, corrosive gas, saline and oil smoke exist.

Places the average daily temperature exceeds 35°C.
Vibration and impact exceed the specifications.
Places metal fragments or conductive substance are flying.

·Places exposed to rain, water drop or direct sunlight.

1.7 Disposal Precautions

When disposing of this unit, treat it as industrial waste.

1.8 About packaging materials and this manual

For reduction of environment load, packaging materials are produced with cardboard.

2. Disclaimer

- It is prohibited to reprint or copy all contents of this document in any form without our permission.
- The contents of this document will be updated to follow revisions to software and hardware, however under unavoidable circumstances it may not be synchronized.

3. Name and function of each part

3.1 Name of each part

(1)EMU4-LG1-MB



(3)Back view and side view





3.2 Indication and function of LEDs

The names and operations of LEDs are as follows.				
Name	Color	Function	Status	
RUN LED	Red	Indicate operating status of this unit.	ON: Normal operation	
			OFF: Power off or hardware failure. (Note1)	
MEA. LED	Red	Indicate operating status of this unit.	ON: In the middle of measuring lo	
			OFF: Halting measurement	
AL.Io1 LED	Red	Indicate Io1-Alarm status of this unit.	On: An error occurs ^{%1}	
			Slow blink ^{**2} : lo1-Alarm is issued.	
			Fast blink ^{**3} : Io1-Alarm count is issued.	
			OFF : lo1_Alarm is not alert.	
AL.lo2 LED	Red	Indicate Io2-Alarm status of this unit.	On: An error occurs ^{%1}	
			Slow blink ^{**2} : lo2-Alarm is issued.	
			Fast blink ^{**3} : lo2-Alarm count is issued.	
			OFF : lo2_Alarm is not alert.	
AL.lor1 LED	Red	Indicate lor1-Alarm status of this unit.	On: An error occurs ^{%1}	
			Slow blink ^{**2} : lor1-Alarm is issued.	
			Fast blink ^{**3} : lor1-Alarm count is issued.	
			OFF : lor1_Alarm is not alert.	
AL.lor2 LED	Red	Indicate lor2-Alarm status of this unit.	On: An error occurs ^{%1}	
			Slow blink ^{**2} : lor1-Alarm is issued.	
			Fast blink ³ : Ior1-Alarm count is issued.	
			OFF: lor2_Alarm is not alert.	

%1: Please reference to \bigcirc 9.1 In case you think the unit is in failure.

%2: Repeat 500msec lighting and 500msec extinction. LED is the status of upper alarm count when upper alarm count is issued at the same time.

3: Repeat 100msec lighting and 100msec extinction.

· Any person who is involved in the installation and the wiring of this unit should be fully competent to do this work.



- Spring fitting
- (3) Push the module down and fit in the
- spring fitting in chases at the lower part of the module.
- module slowly and spring fitting remove in reverse order of Attaching.

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5. Procedure for wiring

Follow the wiring diagram for wiring of circuit and circuit voltage. Please use our zero-phase current transfer (CZ, ZT series) to connection of circuits.

5.1 Wiring for EMU4-BM1-MB





3P4W



3P3W (with voltage transformer)



Insulation monitoring of ground wire of transformer secondary side



5.2 Precautions for the connection wire

	 For tog- terr If th rec 	Protection against noise, transr ether with the power lines and h ninal block) here is concern about the effects ommended to use shielded wire	nission lines and input/output lines igh-voltage lines. Keep distance as of noise even if the distances shou s.	shall not be placed close to or bound s below between them. (except for the wn in the table below are increased, it is			
		Condition Distance					
∆ Caution		High-voltage line 600V or less	300mm or more				
		Other high-voltage line 600mm or more					
	For the actual usage, connect the FG terminal to ground. (D-type ground: Type 3) Connect it directly to the						
	ground terminal.						
	Do not connect to FG terminal during the insulation resistance test and pressure test. Refer to "User's						
	manual (Details)" Chapter 12 "Specifications" for the applying place.						

• Maximum voltage of the circuit connected to EMU4-VA2 is 277 / 480V.

- Max extendable of wiring is up to 50m from zero-phase current transfer to this unit.
- Leak current for resistance can be measured only 1P2W, 1P3W, 3P3W-deruta circuit. You can measure only leak current in the 3P3W star circuit, high resistance installation circuit, capacitor installation circuit, 3P4W circuit.
- · Zero-phase current transfer: CZ, ZT series don't have a secondary polarity.

• Please twist ZCT wire from Z+ and Z terminal in 40 times/m.

• Please connect voltage input terminal. You can't measure accurate measurement without voltage input.

5.2.1 How to connect wire

<Voltage input terminals, MODBUS communication terminal, External input/output terminals>

- Use appropriate crimp-type terminal. Applicable crimp-type terminal is shown in the tables below.
- Use electric wires as below, and tighten the terminal screws by the torque as below.

Use electric wires as below,	and ugriter the terminal screws by the		•
	Applicable wire	Tightening	Applicable crimp-type terminal
		torque	
Power supply terminals,	Stranded wire: AWG22-16	0.8 - 1.0N·m	For M3.5 screw of external
Voltage input terminals	(0.3 - 1.3mm ²)		diameter below 7.1mm
	Single wire: AWG22-16		
	(0.65 - 1.25mm)		
MODBUS	SPEV (SB) -MPC-0.2×1P	0.5 – 0.6 N·m	For M3screw of external
communication terminals	equivalent		diameter below 6.1mm
External input/output	Stranded wire: AWG22-16	0.5 - 0.6N·m	For M3 screw of external
terminals	(0.3 - 1.3mm ²)		diameter below 6.1mm
	Single wire: AWG22-16		
	(0.65 - 1.25mm)		

<Leak current input terminal>

• Stripping length of the used wire in use has to be 10 to 11mm.

- In case using stranded wire, take measures so that the filament should not vary by using a bar terminal or by processing the point twisted.
- When attaching and detaching cables to/from the terminal, use the push button. Check that the wire is securely inserted.
- Insert a wire to the terminal all the way until it touches the end.
- Use appropriate electric wires as shown below.

Applicable wire	Applicable crimp-type terminal
Stranded wire: AWG20-16 (0.5 - 1.3mm ²)	TGV TC-1.25-11T (by NICHIFU) equivalent
Single wire: AWG24-17 (0.5 - 1.2mm)	

5.2.2 Connection of external input / external output

In case using external input and/or external output, refer to the following. External output is contact output.



No-voltage a-contact 35V DC 75mA or, 24V AC 75mA (power factor :1)

The wiring lengths in the table below are approximate values. Please use it as a reference when wiring.

Wire diameter [mm]	Resistivity [Ω/km]	Wiring length [m]
0.5	94	250
0.65	56.8	400
0.9	29.2	750
1.2	16.5	1000

5.2.3 System configuration example of MODBUS communication



Maximum connectable device : 31 device

Connection of MODBUS communication terminals:

- 1. Use the twisted shielded pair cable for transmission lines.(Recommended cable () page 28)
- 2. Connect the termination resistances (120Ω) to both ends of the devices connected the MODBUS transmission line. Termination resistances of 120Ω can be used by short-circuiting "485-" and "Ter" terminals.
- 3. Connect to ground by using thick wires to decrease impedance.
- 4. MODBUS transmission lines shall not be placed close to or bound together with the high-voltage lines.
- 5. Ground the "SLD" terminal at one end.



Note: Connect 110 ohm termination resistors on the MODBUS module (QJ71MB91, QJ71C24N) side. For details, refer to [MODBUS Interface Module User's Manual] (Ref. No. SH-080578ENG) and [Q Corresponding Serial Communication Module User's Manual (Basic)] (Ref. No. SH-080006).

Connection with MELSEC iQ-F series programmable controller



Note: Connect 110 ohm termination resistors on the MELSEC iQ-F programmable controller side. For details, refer to [MELSEC iQ-F FX5 User's Manual (MODBUS Communication)] (Ref. No. JY997D56101).

Connection with MELSEC iQ-R Serial Communication Module (RJ71C24, RJ71C24-R4, RJ71C24-R4) Serial EMU4-LG1-MB EMU4-LG1-MB EMU4-LG1-MB communication module RJ71C24) 485+ 485+ SDA 485+ 485-485-485-SDB Terminating resistor RDA R RDB Ter Ter Ter SG SLD SLD SLD SLD FG

Note: Connect 110 ohm termination resistors on the MELSEC iQ-R programmable controller side. For details, refer to Before Using the Product for RJ71C24, RJ71C24-R4 and RJ71C24-R4 (Ref.NO. BCN-P5999-0075).



Note: Set the termination resistor of the GOT (GOT1000, GOT2000) side to 110 ohm.

For details, refer to [GOT1000 Series Connection Manual (Microcomputers, MODBUS Products, Peripherals) for GT Works3] (Ref.NO. SH-080871ENG) and [GOT2000 Series Connection Manual (Microcomputers, MODBUS/Fieldbus Products, Peripherals) For GT Works3 Version1] (Ref.NO. SH-081200ENG).

6.1 Setting data

To set this unit, dedicated small-size display unit (EMU4-D65) is necessary. For the setting method, refer to User's manual (Details) of the display unit.
The data can be setup is showed below.

6.1.1 Phase wire system

Set	ting value is belo	W.
	Model	Setting value
	Wiring type	1P2W, 1P3W, <u>3P3W</u> , 3P4W

6.1.2 Measurement mode

Setup the measurement mode for Io and Ior. Setting value and details of Measurement mode is below

Setup items	Setting value	Note
Measurement	High SENS mode,	Low SENS0~1000mA 1mA step
mode	Low SENS mode	High SENS0.00~100mA 0.01mA step

6.1.3 Demand time

Setup demand time for calculating demand leak current for resistance and demand leak current.

S	letting value is bel	IOW
	Setting item	Setting value
	Demand time	0sec, <u>5min</u> , 6min, 7min, 8min, 9min, 10min, 11min, 12min, 13min, 14min, 15min, 20min, 25min, 30min

6.1.4 Differential conversion

Setup the whether to calculate lor differential conversion. lor differential conversion is calculated below equation. lor differential conversion = lor - lor differential conversion value

Setting value is below

2			
	Setup items	Setting value	Note
	lor differential	OFF, ON	lor differential conversionAmount of change from
	conversion		lor differential conversion value.
	lor differential	High SENS mode: 0.00 ~100.00mA	
	conversion value	Low SENS mode: 0~1000mA	

6.1.5 Communication setting

Setup the below items for MODBUS communication. Setting items and value is below

Setting item	Setting value
Address	<u>001</u> to 255
Baud rate	2400, 4800, 9600, <u>19200</u> , 38400
Parity	Non, <u>Even</u> , Odd
Sop bit	<u>1</u> , 2

6.1.6 The leak current alarm Setup the whether to monitoring leak current. Please refer to 7.2 Leak current monitoring function for more details. Setting value is below

Setup items	Setting value
lo monitoring elements	Present value, Demand value
lo1- alarm	High SENS mode: 0.00~100.00mA
lo2-alarm	Low SENS mode: <u>0</u> ~1000mA
lo1-alarm count	<u>0</u> ~999999
lo2-alarm count	
lor monitoring elements	Present value, Demand value, Differential conversion value
lor1-alarm	High SENS mode: <u>0.00</u> ~100.00mA
lor2-alarm	Low SENS mode: 0~1000mA
lor1-alarm count	<u>0</u> ~999999
lor2-alarm count	
Target output of alarm	OFF, Io1-alarm, Io2-alarm, Ior1-alarm, Ior2-alarm, upper limit of Io1-alarm count,
	upper limit of lo2-alarm count, upper limit of lor1-alarm count, upper limit of
	lor2-alarm count
Alarm mask	<u>Osec</u> , 5sec, 10sec, 20sec, 30sec, 40sec, 50sec, 1min, 2min, 3min, 4min, 5min
Reset mode	Auto, Hold

6.2 Initialization of related items by change of setting

If setting value is changed, setting value and measured data is initialized in below table 6.2.1 and 6.2.2. Please setup again.

Setup items Bernard Control Bernard Contro <l< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th>Se</th><th>tup</th><th>valı</th><th>ue t</th><th>o be</th><th>e ch</th><th>ang</th><th>ed</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></l<>											Se	tup	valı	ue t	o be	e ch	ang	ed								
Measure mode Wiring type Demand leak current alarm Image: Constraint of the second		Setup items	Measure mode	Wiring type	Demand leak current alarm	Differential conversion ON/OFF setting	Differential conversion value	lo alarm element	lor alarm element	Alarm value (Io1-alarm)	Alarm value (Io2-alarm)	Alarm value (Ior1-alarm)	Alarm value (Ior2-alarm)	Alarm value (Number of Io1-alarm occurrence	Alarm value (Number of Io2-alarm occurrence	Alarm value (Number of lor1-alarm occurrenc	Alarm value (Number of lor2-alarm occurrenc	Alarm of external output circuit	Alarm mask	Alarm reset mode	Modbus address	Modbus baurate	Modbus parity	Modbus stop bit	Logging ID	Logging data clear confirmation
Wiring type Demand leak current alarm Image: Conversion ON/OFF setting Image: Conversion ON/OFF setting Differential conversion value Image: Conversion value Image: Conversion value Image: Conversion value Io alarm element Image: Conversion value Image: Conversion value Image: Conversion value Image: Conversion value Io alarm element Image: Conversion value Image: Conversion value Image: Conversion value Image: Conversion value Io alarm element Image: Conversion value		Measure mode	Ϊ																							
Demand leak current alarm Differential conversion ON/OFF setting Differential conversion Value O O O O O O O O O O O O O O O O O O O		Wiring type		Ζ																						
Differential conversion ON/OFF setting O Image: Conversion value		Demand leak current alarm			Ζ																					
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Ior alarm element O Ior Alarm value (lo1-alarm) O Ior Alarm value (lo2-alarm) O Ior Alarm value (lo1-alarm) O Ior Alarm value (lo1-alarm) O Ior Alarm value (lo1-alarm) O Ior Alarm value (lo2-alarm) O Ior Alarm value (Number of lo1-alarm occurrence O Ior Alarm value (Number of lo2-alarm occurrence O Ior Alarm value (Number of lo1-alarm occurrence O Ior Alarm set mode Ior Ior Alarm reset mode Ior Ior Modbus baurate Ior Ior Modbus stop bit Ior Ior Logging ID Ior Ior Ior Logging data clear confirmation Ior Ior Ior		lo alarm element	0	О				\geq																		
Alarm value (lo1-alarm) O Image: Constraint of the second se		lor alarm element	0	0																						
Alarm value (lo2-alarm) O Image: Constraint of the state of t		Alarm value (Io1-alarm)	0	0						/																
Alarm value (lor1-alarm) O Image: Constraint of the state of	(p	Alarm value (Io2-alarm)	0	0							Ϊ															
Alarm value (lor2-alarm) O Image: Constraint of the second of the s	lize	Alarm value (Ior1-alarm)	0	0								Ζ														
Alarm value (Number of Io1-alarm occurrence O Image: Constraint of Constraints o	hitia	Alarm value (lor2-alarm)	0	0									Ζ													
Alarm value (Number of lo2-alarm occurrence O Image: Constraint of the second of	(ir	Alarm value (Number of Io1-alarm occurrence	0	0										Ζ												
Alarm value (Number of Ior1-alarm occurrenc O Image: Constraint of Constraints o	alue	Alarm value (Number of Io2-alarm occurrence	0	0											Ζ											
Alarm value (Number of lor2-alarm occurrenc O □ Alarm of external output circuit Image: Constraint of the second of	S <	Alarm value (Number of lor1-alarm occurrenc	0	0												$\overline{\ }$										
Alarm of external output circuit Alarm mask Alarm mask Alarm reset mode Alarm reset mode Alarm reset mode Modbus address Alarm reset mode Modbus baurate Alarm reset mode Modbus parity Alarm reset mode Modbus stop bit Alarm reset mode Logging ID Alarm reset mode Logging data clear confirmation Alarm reset mode	etul	Alarm value (Number of lor2-alarm occurrenc	0	0													$\overline{\ }$									
Alarm mask Alarm reset mode Modbus address Modbus baurate Modbus parity Modbus stop bit Logging ID Logging data clear confirmation	Ň	Alarm of external output circuit																Ζ								
Alarm reset mode Modbus address Modbus address Modbus baurate Modbus parity Modbus stop bit Logging ID Logging data clear confirmation		Alarm mask																	Ϊ							
Modbus address Modbus baurate Modbus baurate Modbus parity Modbus stop bit Modbus stop bit Logging ID Modbus confirmation		Alarm reset mode																								
Modbus baurate Modbus parity Modbus stop bit Modbus stop bit Logging ID Modbus confirmation		Modbus address																			\geq					
Modbus parity Modbus stop bit Logging ID Logging data clear confirmation		Modbus baurate																				\geq				
Modbus stop bit	1	Modbus parity																					\geq			
Logging ID Logging data clear confirmation	1	Modbus stop bit																						\geq		
Logging data clear confirmation	1	Logging ID																							\geq	
		Logging data clear confirmation																								$\overline{\ }$

Table 6.2.1 The list of initialization when setup is changed. (Setting val
--

Mark	Contents
0	Initialize
•	Initialize

Initialize when changed from On to OFF. Initialize when lor alarm element is setup lor differential conversion.

Table 6.2.2 The list of initialization when setup is changed. (Measured value)

											Se	tup	val	ue t	o be	e ch	ang	ed								
		Setup items	Measure mode	Wiring type	Demand leak current alarm	Differential conversion ON/OFF setting	Differential conversion value	lo alarm element	lor alarm element	Alarm value (Io1-alarm)	Alarm value (Io2-alarm)	Alarm value (lor1-alarm)	Alarm value (Ior2-alarm)	Alarm value (Number of Io1-alarm occurrence)	Alarm value (Number of Io2-alarm occurrence)	Alarm value (Number of Ior1-alarm occurrence	Alarm value (Number of Ior2-alarm occurrence	Alarm of external output circuit	Alarm mask	Alarm reset mode	Modbus address	Modbus baurate	Modbus parity	Modbus stop bit	Logging ID	Logging data clear confirmation
(pe		Present lo value	0	0																						
alize	×	Demand lo value	0	0	0																					
nitia	Ma	Present lor value	0	0																						
e (i		Demand lor value	0	0	0																					
/alu		lor differential conversion value	0	0		0	0																			
ng v	unt	lo1-alarm	0	0				0		0																
suri	u co	lo2-alarm	0	0				0			0															
eas	arm	lor1-alarm	0	0					0			0														
Z	AL	lor2-alarm	0	0					0				0													

Mark	Contents
0	Initialized.
	Initialize when lor alarm element is setup lor differential conversion.

7.1 Measurement

Measurement elements are showed below table.

In the case displaying in Display unit

	High SENS/Low SENS						
Monitoring or displaying	1P2W /1P3W /3P3W	3P4W					
Look current	Present value		•				
	Maximum value	•	•				
Domand look ourront	Present value		•				
	Maximum value	•	•				
Look current for resistance	Present value						
Leak current for resistance	Maximum value	•	—				
Demand look ourrent for registeres	Present value						
Demand leak current for resistance	Maximum value	•	_				
Differential conversion of leak	Present value	• *1					
current for resistance	Maximum value	• -					
Time	Present Value	• *2	• *2				
Error	_	•	•				

• ... Measuring data

*1: Measured value is displayed differential conversion setting is ON.
 *2: Present time is only displayed when connected EMU4-LM.

Details of measurement elements showed below.

Measurement elements	Details
	Calculate demand of leak current.
Demand leak current	*: Please refer to 6.1.3 demand time for more details.
Domand look ourrent for registered	Calculate demand of leak current for resistance
	*: Please refer to 6.1.3 demand time for more details.
	Calculate below equation.
Differential conversion of leak	Differential conversion of leak current for resistance =
current for resistance	Demand leak current for resistance - differential conversion value
	*: Displayed only when lor differential conversion is ON

In the case monitoring with various communications

The supported communications are as follows.

- CC-Link communication
- CC-Link IE Field Basic communication
- SLMP communication
- MODBUS communication

		High SENS/Low SENS	
Monitoring or displaying item		1P2W	
		/1P3W	3P4W
		/3P3W	
l eak current	Present value	•	•
	Maximum value	0	0
Domand look ourrent	Present value	•	•
	Maximum value	0	0
Leak current for resistance	Present value	•	_
	Maximum value	0	_
Domand look ourrent for registence	Present value	•	—
Demand leak current for resistance	Maximum value	0	_
Differential conversion of leak	Present value	● [*] 1	_
current for resistance	Maximum value	0	_
Time	Present Value	_	_
Error —		•	•

... Data can monitoring
 ... Data can monitoring only by MODBUS communication
 -... Not measuring data

In the case logging using EMU4-LM

Monitoring or displaying item		High SENS/Low SENS	
		1P2W	
		/1P3W	3P4W
		/3P3W	
Look ourront	Present value	•	•
Leak current	Maximum value	_	_
Domand look ourrant	Present value	•	•
	Maximum value	_	_
Leak current for resistance	Present value	•	
	Maximum value	—	_
Demand leak current for resistance	Present value	•	_
	Maximum value	_	_
Differential conversion of leak	Present value	•	_
current for resistance	Maximum value	_	_
Time	Present Value	_	_
Error	_	_	_

• ... Data can logging

- ... Data cannot logging

7.2.1 About monitoring elements

Monitoring elements in each setting value are showed in below table.

	High SENS	/Low SENS
Alarm items	1P2W /1P3W /3P3W	3P4W
lo1-alarm	•	•
lo2-alarm	•	•
lo1-alarm count	•	•
lo2-alarm count	•	•
lor1-alarm	•	_
lor2-alarm	•	_
lor1-alarm count	•	—
lor2-alarm count	•	

… Can monitor data
 … Can't monitoring data

7.2.2 How to use leak current alarm monitoring function

This device can set the leak current alarm and monitor the circuit.

- < Alarm setting >
- ·Leak current alarm value ······Set the upper limit of measured value. For setting value and setting range P.15
- ·Alarm delay time ····· Set the value in case you want to remove the inrush current of the load.

If it exceeds the upper limit alarm value or if it goes below the lower limit alarm value, and the situation continues for the period of the alarm delay time, then it is considered as an alarm occurrence. For setting value and setting range, P.15

·Alarm reset method · · · · Alarm recovery operation is different according to the alarm reset method.

Reset method	Alarm recovery operation
Auto-reset	Reset the alarm automatically if the measured value goes below the upper limit or goes over the
(Auto)	lower limit.
Self-retention	The alarm is held after the measured value goes below the upper limit or
(Hold)	goes over the lower limit. Alarm is cleared by alarm reset.
	For potting P15 For alorm react operation P15

For setting P.15 For alarm reset operation, P.15

< Alarm occurrence / recovery condition >

Alarm item	Alarm reset method	Alarm status	Alarm occurrence / recovery condition
	Auto-reset (Auto)	Occurrence	Measured value > configured upper limit (Alarm delay time is available)
lo1-alarm		Recovery	Measured value < configured upper limit
lo1-alarm lo2-alarm lo1-alarm count lo2-alarm count	Self-retention (Hold)	Recovery	Measured value > configured upper limit (Alarm delay time is available)
		Occurrence	Measured value < configured upper limit AND Alarm reset
		Hold	Measured value ≥ configured upper limit
lo r1-alarm	Auto-reset	Occurrence	Measured value ≥ configured upper limit
lo r2-alarm	(Auto)	Recovery	Measured value < configured upper limit
lo r1-alarm count	Self-retention	Occurrence	Measured value ≥ configured upper limit
lo r2-alarm count	(Hold)	Recovery	Measured value < configured upper limit

(1) Alarm reset mode = Auto



(2) Alarm reset mode = Hold and external output target is lor2-alarm.



8.1 Resolution of measuring data

The resolution of measuring data is determined as follows according to the settings (High SENS or Low SENS).

■Leak current (Io), leak current for resistance (Ior)				
Setup of measure mode	Resolution	Unit		
High SENS mode	2 decimal places	mA		
Low SENS mode	Intenger	mA		

8.2 Restrictions of measured data

Measurement and communication do not performed in a few seconds (about 10seconds) after the power loading to this device. Measurement and communication do not performed in a few seconds after the configuration or the change of the rating to it. Behaviors during operation are as follows.

Measured item	Behaviors of this unit and Indication of Small-size Display Unit
Leak current	Voltage condition:
	Indicate "0V" if RMS value of voltage V12 (voltage V1N for Three-phase 4-wire) is under 11V. *1
	Frequency condition:
	Indicate "0mA" if frequency is under 44.5Hz.
	Indicate "0mA" if frequency is over 66.5Hz.
Demand leak current	Indicate "0mA" if leak current is 0mA.
Leak current for resistance	Indicate "0mA" if leak current is 0mA.
Demand leak current for	Indicate "0mA" if leak current is 0mA.
resistance	
Differential conversion of	Indicate "0mA" if leak current is 0mA.
leak current for resistance	

*1: In single-phase three-wire system, indicate "0V" if RMS value is under 22V.



• This unit takes a few seconds after change rating setup and the setup. While time measuring operation can't conduct. (MEA**. LED is turned off)

9. Reference

This chapter explains the ways of dealing when you think the unit is in failure, Q&A, etc.

9.1 Trouble shooting

If an abnormal sound, bad-smelling smoke, fever break out from this unit, switch it off promptly and don't use it. If you think the unit is in failure, check the following before sending for repair.

Obtained values are different from other measuring instruments.

Check the settings of phase wire system.

Check that the measuring instrument used for comparison indicates a correct RMS value. This unit indicates an RMS value.

If the measuring instrument used for comparison measures an average value instead of RMS value, distortion caused by harmonic etc. in the current of the circuit to be measured causes a significant difference of values.

Please confirm that secondary terminal is short circuit of ZCT or not.

Please confirm that secondary terminal is release of ZCT or not.

ZCT connectable to the unit is the dedicated ZCT only. Check that the proper ZCT is connected or not.

Extinction RUN LED

Please turn OFF/ON the measuring unit. Unit may be in failure if RUN LED extinction happens again.

Lighting ALM Io1, ALM Io2, ALM Ior1, ALM Ior2

Error is occurred. Please check the error number in display unit.

9.2 After-sales service

If you have any questions or the product is broken down, contact our sales representative near you. (For details, refer to the end of this manual.)

- · Gratis warranty is effective until the earlier of 1 year after the date of your purchase or 18 months after manufacturing.
- The gratis warranty shall apply if the product fails even though it is being used properly in the conditions, with the methods and under the environments in accordance with the terms and precautions described in the catalogs, the instruction manual, caution label on the product, etc.
- Repair shall be charged for the following cases even during the gratis warranty period.
 - Failures occurring due to your improper storage or handling, carelessness or fault.
 - Failures due to faulty workmanship
 - Failures due to faults in use and undue modification
 - Failures due to accidental force such as a fire, abnormal voltage, etc. and force majeure such as an earthquake, wind, flood, etc.
 - Failures due to matters unpredictable based on the level of science technology at the time of product.
- Our company shall not be liable to compensate for any loss arising from events not attributable to our company, opportunity loss and lost earning of the customer due to failure of the product, and loss, secondary loss, accident compensation, damage to other products besides our products and other operations caused by a special reason regardless of our company's predictability

9.3 Q&A

General Q To what degree is the unit durable against overvoltage and over current? Durability is as follows: Momentary*: Up to 20 times as high as rated current and 2 times as high as rated voltage. Α *Momentary means: Energizing 9 times for 0.5 seconds at 1-minute intervals, and then 1 time for 5 seconds. Continuous: Up to 1.1 times as high as rated voltage and rated current. Q Is it OK to release (open) the secondary side of ZCT? Do not open the secondary output terminals (k, l) of ZCT. Opening the secondary output terminals may affect characteristics of ZCT. Α In addition, do not short-circuit or ground the test terminals (kt, lt) of ZCT. Otherwise, the leak current may not be detected correctly. Q Is measurement of inverter circuit possible? Measuring the secondary side of the inverter is impossible due to the large fluctuation of frequency. Α Make measurement on the primary side of the inverter. However, since a current waveform on the primary side of the inverter has a distortion containing the harmonic components, a slight error occurs. 0 Obtained values may be different from other measuring instruments. Why is it so? There are various possible causes. Check the following first, please: (1) Check for wiring errors. (2) Check the short circuit on the secondary side of ZCT. (3) ZCT connectable to the unit is the dedicated current sensor only. Α (4) On the split-type ZCT, check for the poor engagement or separation of fitting surfaces. (5) On the split-type ZCT check for pinching of foreign object between fitting surfaces. Check that the measuring instrument used for comparison indicates a correct RMS value. (6) This unit indicates an RMS value. If the measuring instrument used for comparison measures an average value instead of RMS value, distortion caused by harmonic etc. in the current of the circuit to be measured causes a significant difference of values.

■Q&A about specifications

Q	What does "the module tolerance" against?
	It means a range of tolerances input leak current.
	25% of input leak current is allowable tolerance in the range that input leak current is $100 \sim 1000$ mA because rated leak current and
Α	leak current for resistance is 1000mA in low SENS mode.
	When input leak current is less than 100mA, ±2.5mA is the allowable tolerance.
	When rated leak current is 100mA, ±2.5mA is the allowable tolerance.
Q	Is accuracy of a ZCT included?
Λ	Accuracy of a ZCT is not included in accuracy of the unit.
А	A maximum value of tolerance is obtained by summing tolerance of the unit and that of a ZCT.
Q	To what degree an area of micro current is measured?
Α	Leak current value is measured from the area exceeding 0.01mA in high SENS mode and 1mA in low SENS mode.
/	Measured leak current value is 0 when measured value is less than 0.01mA in high SENS mode or 1mA in low SENS mode.
Q	Leak current lo and leak current for resistance lor can be measured without voltage applied.
	Please connecting voltage sure, because lo and lor are not measured without voltage applied.
Α	Measured leak current is 0mA when frequency error because lo can't be measured when frequency is less than 44.5Hz or more than
	66.5Hz.

Q	Is measurement of inverter circuit possible?
Α	Measuring the secondary side of the inverter is impossible due to the large fluctuation of frequency. Make measurement on the primary side of the inverter. However, since a current waveform on the primary side of the inverter has a distortion containing the harmonic components, a slight error occurs.



■Q&A about installation

Q	What is the radius of voltage line that can penetrate to ZCT?
Α	Please reference to T12.2 Specification of option devices

■Q&A about connection



■Q&A about setting

Q	
A	

Is the setting required? At least, settings of phase wires, primary current and primary voltage are required. Specify settings in accordance with a circuit to be connected. To set this unit, dedicated small-size display unit (EMU4-D65) is necessary.

10. Requirement for the compliance with EMC Directives EMC

EMC Directives prescribe both "Emission (electromagnetic interference): Do not radiate strong electromagnetic waves outside" and "Immunity (electromagnetic susceptibility): Do not be influenced by electromagnetic waves from outside".

This section compiles the precautions for the compliance of the system incorporating the energy measuring unit (target model: EMU4-BM1-MB and EMU4-HM1-MB) with the EMC Directives. The following description is based on the requirement of the regulations and the standards we understand, but we do not guarantee to comply with the directives above for the whole system built in accordance with this description. The manufacturer of the system finally needs to evaluate the way of the compliance with EMC Directives and whether the system complies with them or not.

- (1) Harmonized standard for EMC Directives: EN61326-1:2013
 - (a) Compatibility condition for harmonized standard

The energy measuring unit is the open type device (i.e. the device incorporated in other device), and needs to be installed in the conductive control panel. The unit is tested with installed in the control panel for the emission and the immunity out of the test items for the standard.

- (2) Recommended condition for installation in the control panel
 - (a) Control panel
 - Control panel needs to have conducting property.
 - When bolting the top panel, bottom panel etc. of the control panel, mask the grounding part of the panel so as not to be painted.
 - In inner panel, keep the conductivity in as large area as possible by masking the bolting part to the main panel to keep the electric contact to main panel.
 - Ground the main panel by the thick wire so as to keep high impedance even for high-frequency wave.
 - (b) Installation of power line and ground line
 - Set up the ground point to the control panel near the energy measuring unit, and ground the frame GND terminal of the unit to the ground terminal of the control panel (PE) by as thick and short wires as possible. (wire length is 300mm or shorter)
- (3) Cable

(a)Auxiliary power, Input voltage, CC-Link cable, MODBUS cable, Small display unit cable

When it is necessary to comply with the EMC Directive (EN-61326-1), attach ferrite cores to each cable. Ferrite cores used in our testing is below.

- Auxiliary power
 - KITAGAWA INDUSTRIES CO., LTD., RFC-H13 KITAGAWA INDUSTRIES CO., LTD., TRM-31-20-15E-WE
 - Input voltage
 KITAGAWA INDUSTRIES CO., LTD., RFC-H13
 - CC-Link cable, MODBUS cable
 - KITAGAWA INDUSTRIES CO., LTD., RFC-20
 - Small display unit cable
 - KITAGAWA INDUSTRIES CO., LTD., RFC-H13

(b)External input signal line, External output signal line

- Wiring of each connection wire should satisfy the following conditions.
 - For wiring inside buildings, the wiring length should not exceed 30 m.
 - Do not route wiring from the inside of the building to the outside of the building.

11.1 Common specifications

ltem			Specifications			
	Ν	lodel	EMU4-LG1-MB			
	Phase-	wire system	Single-phase 2-wire / Single-phase 3-wire / Three-phase 3-wire /			
	-		Three-phase 4-wire(Change of setting)			
	Voltage	Single-phase	AC110V、220V、440V ^{※1}			
	circuit	2-wire				
		Three-phase				
		3-wire				
		Single-phase	110V AC (b/w 1- and 2-phase, 2- and 3-phase),2	20V AC (b/w 1- and 3-phase)		
Rating		3-wire	220V AC(b/w 1- and 2-phase, 2- and 3-phase),44	220V AC(b/w 1- and 2-phase, 2- and 3-phase),440V AC (b/w 1- and 3-phase)		
5		Three-phase	Min: 63.5V/110V AC, Max: 277V/480V AC ^{**2}	Min: 63.5V/110V AC, Max: 277V/480V AC ^{%2}		
		4-wire				
			AC1A			
	Leak cu	irrent circuit	(Using dedicated zero phase current transfer (JZ, ZI series). Snow the primary current value of		
	Froquo	201/	50Hz (60Hz (Auto dotect)			
Auxilian/	nowersu	noly rating	$AC100V_{240}/(+10\% -15\%) = 50Hz/60Hz = 10V_{4}$	Transient voltage 4000\/		
Measural	ble circuit	count	1 circuit	A Hansient Voltage 4000V		
modoura	V	oltage circuit	Fach phase 0 1VA (at 110V AC) 0 2VA (at 220V	AC) 0.4VA (at 440V AC)		
Consump	otion A	uxiliary power supply	At 110V AC · 2 0VA			
VA	c	ircuit	At 220V AC : 3.0VA			
Allowable	9		Low SENS mode :±2.5%(To 10~100%)	of rating)		
tolerance	3	Leak current lo	:±2.5mA(To less than 10% of rating)			
			High SENS mode :±2.5mA	0,		
			Low SENS mode :+2.5%(To 10~100%)	of rating)		
		Leak current for	+2.5 mA(To less than 10% of rating)			
		resistance lor	High SENS mode +2 5mA			
		Leak current lo				
Data	update	Leak current for	2000			
interval		resistance lor	2sec			
		Leak current lo	2sec			
Respons	e time	Leak current for				
		resistance lor	2sec			
Range of	demand	time setting	0, 5∼15min (1min intervals), 20min, 25min, 30min			
	Input si	gnal	Non-voltage Form A contact, 1 output (choose the	e function from below)		
	Functio	n	lo1-alarm			
			lo2-alarm			
			Io1-alarm upper limit count			
Extornal			lor1-alarm	Auto / Hold		
			lor2-alarm			
ouipui			lor1-alarm upper count			
	-		Ior2-alarm upper limit count			
	Isolatio	n	By semiconductor relay			
	Rated input voltage and		DC35V, 75mA			
-	current		AC24V, $75mA(power factor = 1)$			
Compe	Stored	items	Setup value, Max, Min			
nsation			(stored in the nonvolatile memory)			
for						
power						
failure	1					

	ltem	Specifications			
	Model	EMU4-LG1-MB			
Standard		CE Marking (EMC: EN-61326-1: 2013, Safety: EN-61010-1: 2010) UL:UL61010-1 ³⁴³⁵			
	Operating	-5 - +55°C (Daily average temperature is 35°C or lower)			
Usage	temperature				
	Operating humidity	30 - 85%RH (No condensation)			
environment	Storage temperature	-10°C~+60°C			
	Operating altitude	2000m or below			
Commercial f	requency withstand voltage	B/w all terminals (except for communication circuit and frame GND terminal) and casing: 2000V AC, 1min			
		B/w all terminals of leak current input, voltage input / auxiliary power : 2000V AC, 1min			
		B/w all terminals of leak current input, voltage input, auxiliary power and all terminals of digital / pulse input, pulse / alarm output, communication: 2000V AC, 1min			
Insulation res	istance	$10M\Omega$ or more at the same part above (500V DC)			
	Terminals of auxiliary power circuit and voltage input	AWG22-16(single/stranded) (Single∶φ0.65-φ1.25mm、stranded∶0.3-1.3mm²)			
Appropriate	Terminals of MODBUS communication	SPEV(SB) - MPC-0.2×1P equivalent			
wire	Terminals of	AWG22-16(single/stranded)			
	External output	(Single:φ0.65-φ1.25mm, stranded:0.3-1.3mm ²)			
	Terminals of leak current	Stranded:AWG20-16(Stranded wires:0.5-1.3mm ²)			
	input	Single:AWG24-17(Single line: φ0.5-φ1.2mm)			
Screws for terminals of auxiliary power circuit and voltage input		0.8~1.0N·m			
torque	Screws for terminals of MODBUS	0.5~0.6N·m			
	communication and				
Mass	External input output	0.2kg			
External dime	ensions (unit: mm)	37.5(W)×90(H)×94(D)(expect for the protruding portions)			
		(Maximum dimension including the protruding portions:41.5(W)×99(H)×94(D))			

%1:110V, 220V, 440V AC can connected to this unit directly. For the circuit over this voltage (maximum: 600V AC), transformer (VT) is necessary.

%2:63.5/110V - 277/480V AC can connected to this unit directly. For the circuit over this voltage (maximum: 600V AC), transformer (VT) is necessary.

X3: Allowable tolerance is not included fudge factor.

%4: When combine it with a B/NET Communication Unit (Model: EMU4-CM-B), it becomes out of a conformity standard. When combine it with a ZCT (Model: ZT60B,ZT80B,ZT100B), it confirms UL standard.

%5: CC-Link Communication Unit produced after December, 2015 confirms UL in combination with EcoMonitorPlus.

11.2 Specifications of MODBUS communications

Item		Specifications				
Physical interface	RS-485 2wires half duplex					
Protocol	MODBUS RTU mode	MODBUS RTU mode				
Transmission method	Asynchronous					
Transmission wiring type	Multi-point bus (either directly on the trunk cat	le, forming a daisy-chain)				
Baud rate	2400, 4800, 9600, 19200, 38400bps	(default: 19200bps)				
Data bit	8					
Stop bit	1, 2	(default: 1)				
Parity	ODD,EVEN,NONE	(default: EVEN)				
Slave address	1~255 (FFh)	(default: 1)				
	0: Broadcast					
Response time	1s or shorter from completion of receiving query data to response transmission					
Transmission distance	1200m					
Maximum connectable	31 devices					
devices						
Termination resistor	120Ω 1/2W					
Recommended cable	SPEV(SB)-MPC-0.2 × 1P (Fujikura Dia Cable)					

12. Option devices

12.1 About option devices

Option devices of this unit are showed below. Please reference to manual of option devices.

Product name	9	Model	Note
Extention unit	Energy Measuring Unit Expansion product for electric energy monitoring in same voltage system	EMU4-A2	You can monitor Multi-circuit in same voltage system to extension main unit
	Energy Measuring Unit Expansion product for electric energy monitoring in different voltage system	EMU4-VA2	You can monitor Multi-circuit in different voltage system to extension main unit
	Energy Measuring Unit Energy Measuring Extension Model for Pulse Input	EMU4-PX4	You can monitor at most 4 circuits of pulse/a contact input system to extension main unit. When data exceeded the established upper limit value, indication of LEDs and contact output are performed.
	Energy Measuring Unit Energy Measuring Extension Model for Analog Input	EMU4-AX4	You can monitor at most 4 circuits of analog input (0++5V/0-+20mA) system to extension main unit. When data exceeded the set upper limit value, indication of LEDs and contact output are performed.
Option unit	CC-Link Communication Unit for Energy Measuring Unit	EMU4-CM-C	You can use CC-Link communication by connecting main unit.
	Logging Unit for Energy Measuring Unit	EMU4-LM	You can log the measured data by connecting main unit.
	CC-Link IE Field Network Basic Communication Unit for Energy Measuring Unit	EMU4-CM-CIFB	You can use CC-Link IE Field Basic communication by connecting main unit.
	Small-size Display Unit for Energy Measuring Unit	EMU4-D65	You can display the measured data and use for setup.
Peripheral	Split type zero phase current	CZ-22S	Hole diameter is 22mm.
equipment	transformer (ZCT)	CZ-30S	Hole diameter is 30mm.
	, , , , , , , , , , , , , , , , , , ,	CZ-55S	Hole diameter is 55mm.
		CZ-77S	Hole diameter is 77mm.
		CZ-112S	Hole diameter is 112mm.
	Through type zero phase	ZT15B	Hole diameter is 15mm.
	current transformer (ZCT)	ZT30B	Hole diameter is 30mm.
		ZT40B	Hole diameter is 40mm.
		ZT60B	Hole diameter is 60mm.
		ZT80B	Hole diameter is 80mm.
		ZT100B	Hole diameter is 100mm.

(1) Split type zero phase current transfer(ZCT)

Item			Specifications				
Model	CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ-112S		
Hole diameter(mm)	φ22	φ30	φ55	φ77	φ112		
Maximum operating voltage	AC 600V						
Rated frequency		50/60Hz					
Rated current in short time (Peak value)	rrent 50kA time (100kA)						
Category of measuring	CATI						
Pollution degree							
Regulatory Compliance	EN61010-2-032						
Combined equipment	Using with fit EMU4-LG1-MB						
Mass	0.5kg	0.6kg	1.8kg	2.8kg	6.0kg		

■Hole diameter of split type zero phase current transfer (ZCT) and Maximum wire radius penetrable and allowable current

	Wiring	method	Maximum wire radius penetrable(mm²) (Allowable current(A))				
Wiring	Wire number	Type of wire	CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ-112S
Cinala abasa		600V vinyl wire (IV wire)	22 (115)	60 (217)	250 (556)	500 (842)	-*1
Single-pnase 2-wire	2	600Vcross polyethylene Isolation wire (CV wire)	22 (130)	38 (190)	200 (545)	500 (920)	1000 (1465)
Single-phase 3-wire Three-phase 3-wire	3	600V vinyl wire (IV wire)	22 (115)	38 (162)	200 (496)	500 (842)	-*1
		600Vcross polyethylene Isolation wire (CV wire)	14 (100)	22 (135)	150 (455)	325 (760)	800 (1285)
	4	600V vinyl wire (IV wire)	14 (88)	38 (162)	150 (395)	325 (650)	-*1
4-wire		600Vcross polyethylene Isolation wire (CV wire)	8 (72)	22 (130)	150 (455)	325 (725)	600 (1005)

Note

(1)The thickness of the wire is different from maker.

(2)IV wire shows that an insulator.

(3) CV line is showed as airborne culvert laying and compressed stranded wire.

(more than 600mm² cable is showed as reference value.)

*1: Please use after confirming that it satisfies the followings.

•The using wire can penetrate the ZCT.

·Measuring part satisfies the allowable current of the wire.

(2) Penetration type zero phase current transfer (ZCT)

Item	Specifications					
Model	ZT15B	ZT30B	ZT40B	ZT60B	ZT80B	ZT100B
Hole diameter(mm)	φ15	φ15 φ30 φ40			φ80	φ100
Maximum operating voltage	AC 600V					
Rated frequency	50/60Hz					
Rated current	50kA					
in short time			(100	kA)		
Mass	0.2kg 0.4kg 0.6kg 2.0kg 2.6kg 3.3kg				3.3kg	

■Hole diameter of through type zero phase current transfer (ZCT) and Maximum wire radius penetrations and allowable current

	Maximum wire radius penetrable(mm²) (Allowable current(A))							
Wiring	Wire numb er	Type of wire	ZT15B	ZT30B	ZT40B	ZT60B	ZT80B	ZT100B
		600V vinyl wire (IV wire)	14 (88)	60 (217)	150 (395)	325 (650)	600 (992)	800 (1185)
Single-phase 2-wire	2	600Vcross polyethylene Isolation wire (CV wire)	2 (33)	38 (190)	60 (260)	250 (655)	400 (870)	600 (1140)
Single-phase	3	600V vinyl wire (IV wire)	8 (61)	38 (162)	100 (298)	250 (556)	500 (842)	725 (1095)
3-wire Three-phase 3-wire		600Vcross polyethylene Isolation wire (CV wire)	2 (33)	22 (135)	60 (260)	200 (560)	325 (760)	600 (1140)
	4	600V vinyl wire (IV wire)	8 (61)	38 (162)	100 (298)	150 (395)	325 (650)	600 (992)
Inree-phase 4-wire		600Vcross polyethylene Isolation wire (CV wire)	_	14 (105)	38 (190)	100 (365)	250 (655)	400 (870)

Note

(1)The thickness of the wire is different from maker.
(2)IV wire shows that an insulator.
(3) CV line is showed as airborne culvert laying and compressed stranded wire. (more than 600mm² cable is showed as reference value.)

■Energy measuring unit extension for the system with the same voltage(EMU4-A2)



Energy measuring unit expansion for the systems same voltage. (EMU4-VA2)





Energy Measuring Unit Energy Measuring Extension Model for Pulse Input (Model: EMU4-PX4)



■ Energy Measuring Unit Energy Measuring Extension Model for Analog Input (Model: EMU4-AX4)





CC-Link Communication unit (Model: EMU4-CM-C) for energy measuring unit.





■ Logging Unit(Model: EMU4-LM) for energy measuring unit.



CC-Link IE Field Network Basic Communication unit (EMU4-CM-CIFB)









■ Split type zero phase current sensor (CZ series)

CZ-22S/30S/55S/77S







Та	Unit (mm)				
	CZ-22S	CZ-30S	CZ-55S	CZ-77S	CZ-112S
Α	φ22	φ30	φ55	φ77	φ112
В	27	27	32	41	57
С	100	114	148	198	234
D	112	130	160	210	246
Е	128	144	177	232	268
F	5	5	7	10	8
G	30	30	36	45	62
Н	12	12	12	12	12
J	41	47	66	90	109
К	77	89	124	171	207

■ Through type zero phase current transfer(ZT series)



Dimension table for ZT15B, 30B, 40B models

	ZT15B	ZT30B	ZT40B
Α	48	68	85
В	15	30	40
С	29	37	43
D	62	82	92
E	46	66	81
F	15	30	40
G	70	90	100
н	25	50	50

Dimension table for ZT60B, 80B, 100B models

	ZT60B	ZT80B	ZT100B
Α	140	160	185
В	60	80	100
С	73	82	93
D	150	169	190
E	46	48	50

ZT60B, 80B, 100B models



CZ-112S



Unit: mm

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35.4

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Zero phase cur	rent transforme	r (ZCT).	
zero priase cui		I (ZOI).	

Wiring type 14

Energy Measuring Unit Insulation Monitoring Model

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Malaysia Maroco Myanmar Nepal Netherlands North America North America	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Intech Marine & Offshore B.V. Mitsubishi Electric Automation, Inc. Scanelec, AS	No. 5 Jalan Perindenta 01/49, remasya industriar Pain, Glerintarie 40100 Shan Alan, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2, 265, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Gordvik	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +957-001-202589 +977-1-4411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Imtech Marine & Offshore B.V. Mitsubishi Electric Automation, Inc. Scanelec AS Mitsubishi Electric Automation, Inc.	No. 5 Jalan Perhedita 01/49, Tennasya industriar Pain, Gleriniarie 40100 Shah Alain, Selangor, Malaysia 10, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta 99 PAOLA HILL, PAOLA PLA 1702, Malta 100 Statistical Stat	+603-5569-3748 +603-5633-1280 +356 (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 +447 (0)55-506000
Malaysia Matroco Myanmar Nepal Netherlands North America Norway Mexico	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Imtech Marine & Offshore B.V. Mitsubishi Electric Automation, Inc. Scanelec AS Mitsubishi Electric Automation, Inc. Mexico Breach	No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Gleinhaite 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161,Yangon,Myanmar KHA 2-65,Volt House Dillibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd, Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miruel Hiddago, Giudad de Máriao, Centardon, Netine	+603-5569-3748 +603-5633-1280 +356 (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)55-506000 +52-55-3067-7511
Malaysia Matta Maroco Myanmar Nepal Netherlands North America North America Norway Mexico	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Imtech Marine & Offshore B.V. Mitsubishi Electric Automation, Inc. Scanelec AS Mitsubishi Electric Automation, Inc. Mexico Branch	No. 5 Jalan Perindenta 01/49, reinasya industrial Pain, Gleriniarie 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Bolahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +957-(0)1-202589 +977-1-4411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Wat&Volt House Imtech Marine & Offshore B.V. Mitsubishi Electric Automation, Inc. Scanelec AS Mitsubishi Electric Automation, Inc. Mexico Branch Comptoir d'Electricite Generale-International-	No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Glerintaite 40100 Shah Alain, 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 Casablanca, Maroco N0137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161,Yangon,Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bidd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México	+603-5569-3748 +603-5633-1280 +356 (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)55-506000 +52-55-3067-7511
Malaysia Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries &	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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.	No. 5 Jalan Perindenta 01/45, reinasya industriar Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2, 456, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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.	No. 5 Jalah Perhabitika 01/49, Tehnasya industrial Pain, Gleriniarie 40100 Shah Alain, Selangor, Malaysia 60, Jalan USJ 10/1B,UEP Subbang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta Wh 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH4 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +95-(0)1-202589 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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.	No. 5 Jalah Perluenta 01/49, remasya industrial Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco N0137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2, 456, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bid. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2 D. CHUREDED IL LAHODE, 54600, DAVISTAN	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +371(0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232,
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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.	No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Glerintarie 40100 Shah Alain, Selangoli, Malaysia 60, Jalan USJ 10/1B,UEP Subang Jaya 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta WM 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdiji 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +95-(0)1-202589 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Wat&Volt 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. Rhona S.A. (Branch office)	No. 5 Jalah Perluenta 01/49, remasya industrial Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco N0137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2, e5, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Bivd. Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Eactory Automation Philippines Inc.	No. 5 Jalan Perindenta 01/49, reinasya industrial Pain, Glerinfane 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128. Longe ZiraJ SL Targe ZiraJ S	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-56-84429
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America North America Nortway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Ediane Electric de Inc.	No. 5 Jalar Perindenta OnAs, remasya industriar Pain, Glerintare 40100 Shah Alain, Selangor, Malaysia 60, Jalan USJ 10/1B, UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta Wh 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH4 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24b El Calleria Correcto Control Centor Change Uring City. Metro Manila, Phillippines	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +95-(0)1-202589 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc.	No. 5 Jalan Perindenta 01/49, Tehnasya industrial Pain, Gleinhaite 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2.465, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Conterler, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines	+603-5569-3748 +603-5583-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt House Intrech 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Lurope B.V. Polish Branch	No. 5 Jalan Perindenta 01/49, Tennasya industriar Pain, Glerintarie 40100 Shah Alain, Selangor, Malaysia 60, Jalan USJ 10/1B,UEP Subang Jaya 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta 99 PAOLA HILL, PAOLA PLA 1702, Malta 90 PAOLA HILL, PAOLA PLA 1702, Malta 90 PAOLA HILL, PAOLA PLA 1702, Malta 90 PAOLA HILL, PAOLA PLA 1702, Malta 91 PAOLA HILL, PAOLA PLA 1702, Malta 92 PAOLA HILL, PAOLA PLA 1702, Malta 93 PAOLA HILL, PAOLA PLA 1702, Malta 94 PAOLA HILL, PAOLA PLA 1702, Malta 95 PAOLA HILL, PAOLA PLA 1702, Malta 96 No137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI, Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krako	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +95-(0)1-202589 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-634-8691 +48 12 347 65 00
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Europe B.V. Polish Branch Inteshi SRL.	No. 5 Jalan Perindenta 01/45, remasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco N0137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e65, Volt House Dillibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Blvd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FL Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL	No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Glerintarle 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 42-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-254-8042 +63-(0)2-254-8061 +48 12 347 65 00 +373 (0)22-66-4242
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America Nortway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL	No. 5 Jalan Perindenta 01/49, remasya inclustrian Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH 2, e5, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Blvd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 111-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bld. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC	No. 5 Jalan Perindenta 01/49, Tehnasya industriar Pain, Gleinhaite 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid. 1, Lethikovskava street, Moscow, 115114. Russia	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +74 95 721-2070
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America North America Nortway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Centor of Electricic (Russia)	 No. 5 Jalah Perhedita 01/49, Tehnasya industrial Pain, Glerintare 40100 Shah Alah, Selangor, Malaysia 60, Jalan USJ 10/1B,UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta 80 NOVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Stuisjesdiji 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd, Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Leitnikovskaya street, Moscow, 115114, Russia Alsburguerst, Sidow aux of Salabuditi La Lowabido St. D.O. Pay 15055 Ebingth 11464, Caudi Apabic 	+603-5569-3748 +603-5633-1280 +356 (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)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-634-8691 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-14770140
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electrical Goods	 No. 5 Jalah Perihabata 01/49, Tehnasya industrial Pain, Gleinhaite 40100 Shah Alaih, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KH A 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St., Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-268-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +966-14770149
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricia Goods Mitsubishi Electric Asia Pte. Ltd.	 No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Glerintaite 40100 Shah Alain, Selangoli, Malaysia 60, Jalan USJ 10/1B, UEP Subang Jaya 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HILL, PAOLA PLA 1702, Malta 80 PAOLA HILL, PAOLA PLA 1702, Malta 90 PAOLA HILL, PAOLA PLA 1702, Malta 80 PAOLA HILL, PAOLA PLA 1702, Malta 80 PAOLA HILL, PAOLA PLA 1702, Malta 90 PAOLA HILL, PAOLA PLA 1702, Malta 81 Mi 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar 81 KH 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar 81 KH 32, 450, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal 81 Suisjesdiji 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway 81 Md. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI, Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer SL Side way of Salahuddin Al-Ayoubi SL P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +95-(0)1-202589 +97-1-4411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-634-8691 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +966-14770149 +65-6473-2308
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Quope B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electrical Goods Mitsubishi Electric Aid Pte. Ltd. PROCONT, Presov	 No. 5 Jalan Perindenta OnAs, remasya industriar Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e65, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Madaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-606841 Bucuresti, Sector 6 Aleea Lacul Mori Nr. 3 2 bid. 1, Letnikovskaya street, Moscow, 115114, Russia AI-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 17, SK - 08001 Presov, Stovakia 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +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 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-268-8042 +373 (0)22-66-8242 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +966-14770149 +656-6473-2308 +421 (0)51 - 7580 611
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electric Asia Pte. Ltd. PROCONT, Presov SIMAP	 No. 5 Jalan Perindenta 01/49, Tennasya industrial Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdiji 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bld.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +97-(0)1-202589 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-675232, 5753373 +51-1-464-4459 +63-(0)2-254-8042 +63-(0)2-254-8042 +48 12 347 65 00 +373 (0)2-268-4242 +49 (0)21-430-40-06 +7 495 721-2070 +9661-4770149 +65-6473-2308 +421 (0)32 743 04 72
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America North America Nortway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Corpe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electrical Goods Mitsubishi Electric Automation LLC PROCONT, Presov SIMAP Inea RBT d.o.o.	 No. 3 Jalan Perindenta 01/49, Tennasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e65, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México 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 Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bld.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Steane 11, SH-000 Ukipana, Slovenia 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-634-8691 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7495 721-2070 +965-6473-2308 +421 (0)51 -7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Slovakia Slovakia	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electric Asia Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CBL-electric: Iow voltane	 No. 5 Jalan Perindenta OnAs, remasya industriar Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FL Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Lethikovskaya street, Moscow, 115114, Russia Al-Shuwayer SL Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubljana, Slovenia 	+603-5569-3748 +603-5563-7280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-634-8691 +48 12 347 65 00 +373 (0)22-66-49242 +40-(0)21-430-40-06 +77 495 721-2070 +966-1-4770149 +652-6473-2308 +421 (0)51 -7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116 +272-(0)1-982000
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America North America North America Nortway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricite Goods Mitsubishi Electric (Russia) LLC Center of Electric Reserved SIMAP Inea RBT d.o.o. CBI-electric: Iow voltage	 No. 3 Jalan Perindenta 01/49, Tennasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Blvd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 111-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bld. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bld.1, Letnikovskaya street, Moscow, 115114, Russia Ai-Shuwayer SL Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 91101 Trencin, Slovakia Stegne 11, SK - 08001 Presov, Slovakia Stegne 11, SK - 08001 Presov, Slovakia Stegne 10, SK - 0800 Aguteng, South Africa Coretore of De Miz Mex De Coeffoo South Africa Coretore do Bubli 78 Ob E. 09000 South Offica 	+603-5569-3748 +603-5563-7280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +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
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovania South Africa Spain	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric Asia Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Europe B.V. Spanish Branch	 No. 5 Jalah Perinderia O'rAs, Ternasya industriar Pain, Glerintarie 40100 Shah Alain, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 11, Skr - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-268-8042 +63-(0)2-268-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +77 495 721-2070 +966-1-4770149 +65 -6473-2308 +421 (0)51 -7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116 +27-(0)11-9282000 +34 (0)93-565-3131
Malaysia Marta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saud Arabia Slovakia Slovenia Spain Syard Africa	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Inteshs SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electrical Goods Mitsubishi Electric Asia Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CB-leectric: low voltage Mitsubishi Electric Europe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Spanish Branch	 No. 3 Jalan Periloetita 01/49, Tehnasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, Malaysia 60, Jalan USJ 10/1B,UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA HLL, PAOLA PLA 1702, Malta KM 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 111-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Philippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Lethikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 11, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden 	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +421 (0)51 -7580 611 +421 (0)51 -7580 611 +421 (0)151 -7580 611 +421 (0)151 -7580 611 +421 (0)151 -7580 611 +421 (0)151 -7580 611 +421 (0)153-8116 +27-(0)11-9282000 +34 (0)93-565-31311 +46 (0)8-625-10-00
Malaysia Marta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric Automation LtC. Center of Electrical Goods Mitsubishi Electric Co. SIMAP Inea RBT d.o.o. CCBI-electric Iow voltage Mitsubishi Electric Europe B.V. Spanish Branch Euro Energy Components AB	 No. 5 Jalan Perinderia O'rAs, Fernasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e5, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Madaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid. 1, Letnikovskaya street, Moscow, 115114, Russia AI-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 17, SK - 91101 Trencin, Slovakia Stegne 11, SI-1000 Ljubijana, Slovania Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 36, K-234 24 Kungsbacka, Sweden Jarnvägsgatan 36, S-434 24 Kungsbacka, Sweden 	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +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 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-263-8691 +481 2347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +421 (0)51 - 7580 611 +421 (0)51 - 7580 611 +421 (0)51 - 7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116 +27-(0)11-9282000 +346 (0)300-690040
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricia Goods Mitsubishi Electric Asia Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Iow voltage Mitsubishi Electric Europe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Spanish Branch	 No. 3 Jalan Perinderia O'IAs, Ternasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Blvd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid. 1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubljana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, C:23 55 Lund, Sweden Järneden and So. 4:44 24 Kungsbacka, Sweden Jar Derku 167, SK - 1800 Schafhausen, Switzerland 	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-634-8691 +48 12 347 65 00 +373 (0)2-26-4242 +40-(0)21-430-40-06 +7 495 721-2070 +966-14770149 +656-473-2308 +421 (0)32 743 04 72 +381 (0)3-7580 611 +421 (0)32-743 04 72 +386 (0)1-513-8116 +27-(0)13-9282000 +34 (0)3-565-3131 +46 (0)8-625-10-00 +46 (0)32-629040
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia Slovenia South Africa Spain Sweden Taiwan	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Lutegrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electrical Goods Mitsubishi Electric Case Fines PRCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Iourope B.V. Spanish Branch Mitsubishi Electric Europe B.V. Spanish Branch	 No. 3 Jalan Perindenta OnAs, remasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Mr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Ar-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Jana Derku 1677, SK - 91101 Trencin, Slovakia Stegne 11, SK - 08001 Presov, Slovakia Jana Derku 1677, SK - 91101 Trencin, Slovakia Stegne 11, SK - 08109 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möller sgata 6, 223 55 Lund, Sweden Järnvägsgatan 36, S-434 24 Kungsbacka, Sweden Muehlentalstrasse 136, CH-8201 Schaffhausen, Switzerland Sth EL, No.05, Wi Kuwu UH-sinon, Tarine, Taiwan, R O C 	+603-5569-3748 +603-5583-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +373 (0)22-66-8042 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-4473-2308 +421 (0)33-753-0116 +27-(0)11-9282000 +336 (0)1-513-8116 +27-(0)11-9282000 +346 (0)30-6525-10-00 +46 (0)300-690040 +41-(0)2-2298-8889
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric Ausora Philippines Inc. Edison Electric Goods Mitsubishi Electric Ausora Philippines Inc. Comptoir of Electric Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Russia) LLC Center of Electric Asia Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Iow voltage Mitsubishi Electric Europe B.V. (Scandinavia) Euro Energy Components AB TriElec AG Setsuyo Enterprise Co., Ltd	 No. 5 Jalan Perinderia O'r49, remasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FL Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, ND-2060 Kishnev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Lethikovskaya street, Moscow, 115114, Russia Al-Shuwayer SL Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 91001 Presov, Slovakia Stegne 11, SI-1000 Ljubljana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden Järnvägsgatan 36, SI-434 24 Kungsbacka, Sweden Marhandra Road, Mury Vu-Ku Hsiang, Taipei, Taiwan, R.O.C. 7/12 Banungmung Kada Kada Mahanka	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +373 (0)22-66-4242 +40-(0)21-430-40-06 +373 (0)22-66-4242 +40-(0)21-430-40-06 +373 (0)22-66-4242 +40-(0)21-7580 611 +421 (0)31 -7580 611 +421 (0)31 -7580 611 +421 (0)31 -7580 611 +421 (0)31 -7580 611 +421 (0)32 -743 04 72 +386 (0)1-513-8116 +27-(0)11-9282000 +34 (0)30-665-3131 +46 (0)30-6690040 +41-(0)52-6258425 +886-(0)2-2298-8889 +66-273-2308
Malaysia Malta Maroco Myanmar Nepal Netherlands North America North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Quotes SRL Mitsubishi Electric (Russia) LLC Center of Electricial Goods Mitsubishi Electric Goods Mitsubishi Electric Co. SiMAP Inters SRL Sirius Trading & Services SRL Mitsubishi Electric Goods Mitsubishi Electric Co. Cell-electric: Iow voltage Mitsubishi Electric Compe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Econdinavia) Euro Energy Components AB TriElec AG Setsuyo Enterprise Co., Ltd. Mitsubishi Electric Europe Europe Eleve	 No. 3 Jalan Perinderia 01/49, Tennasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e5, Volt House Dilibazar Post Box:2108,Kathmandu,Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México 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 Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bld.1, Letnikovskaya street, Moscow, 115114, Russia AI-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Lubipan, Slovakia Steg	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-634-8691 +481 2347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +421 (0)51-7580 611 +421 (0)32 743 04 72 +336 (0)1-513-8116 +27-(0)11-9282000 +34 (0)93-652-10-00 +44 (0)93-652-10-00 +44 (0)30-659040
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan Thailand	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Russia) LLC Center of Electricite Goods Mitsubishi Electric Automation, Philippines Inc. Edison Electric (Russia) LLC Center of Electric Asa Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CEI-electric: Low pe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Spanish Branch Mitsubishi Electric Components AB TriElec AG Setsuyo Enterprise Co., Ltd. MITSUBISHI ELECTRIC FACTORY	 No. 5 Jalan Perhodita 01/49, Tennasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal SL, Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Philippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 17, SK - 98010 Presov, Slovakia Stegne 11, SI-1000 Lubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden Jarwägsgatan 36, CH-8201 Schaffhausen, Switzerland Muehlentalstrasse 136, CH-8201 Schaffhausen, Switzerland Thiva Bagatan 30, Wu Kung 3rd	+603-5569-3748 +603-5583-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +371 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4224 +40-(0)21-430-40-06 +77 495 721-2070 +966-1-4770149 +65-473-2308 +421 (0)51 -7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116 +27-(0)1-7880 611 +421 (0)32 -743 04 72 +386 (0)1-513-8116 +427 (0)1-7880 611 +44 (0)3-565-3131 +46 (0)30-690040 +34 (0)93-565-3131 +46 (0)30-690040 +41-(0)52-6258425 +886-(0)2-2298-8889 +66-223-4220-3
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia Slovenia South Africa Spain Sweden Switzerland Taiwan	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricial Goods Mitsubishi Electric Co. SiMAP Inea RBT d.o.o. CBI-electric: Europe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Clscandinavia) Euro Energy Components AB TriElec AG Setsuyo Enterprise Co., Ltd United Trading & Import Co., Ltd. MITSUBSHI ELECTRIC FACTORY AUTONATION	 No. 3 Jalan Perindenta OnAs, remasya industriar Pain, Glerintarie 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2:e5, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Blvd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Giudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 111-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bld. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bld.1, Letnikovskaya street, Moscow, 115114, Russia Ai-Shuwayer SL Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 1/, SK - 08001 Presov, Slovakia Stegne 11, St08010 Presov, Slovakia Stegne 11, St08010 Presov, Slovakia Stegne 11, St08101 Presov, Slovakia Stegne 11, St08101 Presov, Slovakia Stegne 11, St08101 Sand Gauteng, South Africa Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Pri	+603-5569-3748 +603-5583-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +421 (0)51 -7580 611 +421 (0)32-65-3131 +421 (0)31-365-5131 +46 (0)30-690040 +41-(0)52-625425 +886-(0)2-228-8889 +662-23-4220-3 +662-092-8600
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia Sovakia Slovenia Sovakia Suveden Switzerland Taiwan Thailand	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric Asa Pte. Ltd. PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Iow voltage Mitsubishi Electric Europe B.V. Spanish Branch Mitsubishi Electric Europe B.V. Spanish Dranch Mitsubishi Electric Europe B.V. Spanish Dranch	 No. 5 Jalah Perhabitika 01/49, Tehnasya industrial Pain, Gleinhale 40100 Shah Alaih, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dillibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Letnikovskaya street, Moscow, 115114, Russia Ai-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 11, SK - 90101 Presov, Slovakia Jana Derku 1671, SK - 91101 Trencin, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden Jarrvägagata 36, S-434 24 Kungsbacka, Sweden Muehlentalstrases 136, CH-8201 Schaffhausen	+603-5569-3748 +603-5563-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-268-8042 +63-(0)2-634-8691 +4812 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +77 495 721-2070 +966-14770149 +656-473-2308 +421 (0)51 - 7580 611 +421 (0)32 743 04 72 +386 (0)1-513-8116 +27-(0)11-9282000 +34 (0)93-565-3131 +46 (0)8-659-10-00 +46 (0)300-690040 +41-(0)52-6258425 +886-(0)2-229-8889 +662-203-420-3
Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Taiwan Thailand	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Automation, Inc. String & Services SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricia Goods Mitsubishi Electric Automation CBI-electric: Iow voltage Mitsubishi Electric Europe B.V. Spanish Branch Inter RBT d.o.o. CEI-electric: Iow voltage Mitsubishi Electric Europe B.V. (Scandinavia) Euro Energy Components AB TriElec AG Setsuyo Enterprise Co., Ltd United Trading & Import Co., Ltd. MITSUBSHI ELECTIC FACTORY AUTOMATION (THAILAND) CO.,LTD MOTRA Electric	 No. 3 Jalan Perinderia O'IAs, Terinasya industriar Pain, Glerinfane 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vemon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Lethikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 11, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-80, E-08190 Sant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 36, C:33 55 Lund, Sweden Järnvägsgatan 36, S-434 24 Kungsbacka, Sweden Järnvägsgatan 36, S-434 24 Kungsbacka, Sweden Järnvägsgatan 36, S-434 24 Kungsbacka, Sw	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-14411330 +31 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-06 +7 495 721-2070 +965-6473-2308 +421 (0)51 -7580 611 +421 (0)51 -7580 611 +421 (0)51 -7580 611 +421 (0)51 -7580 611 +445 (0)30-690040 +441-(0)52-6251425 +886-(0)2-2298-8889 +662-092-8600 +216-71 474 599
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Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan Thailand	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric (Russia) LLC Center of Electricia Goods Mitsubishi Electric Automation PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric: Iow voltage Mitsubishi Electric Europe B.V. Spanish Branch Mitsub	 No. 3 Jalan Perinderia O'IA's, Terinasya industriar Pain, Gleriniane 40100 Shah Alain, Selangoli, 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 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 43B, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FI. Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Leitnikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 11, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera Rubi 76-08, E-08190 Shart Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden Järrwägsgatan 36, S-434 24 Kungsbacka, Sweden Järrwägsgatan 36, S-434 24 Kungsbacka, Sweden Järrwägsgatan 36, S-434 24 Kungsbacka, Sw	+603-5569-3748 +603-5633-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40 (0)21-430-40-06 +77 495 721-2070 +966-1-4770149 +65-6473-2308 +421 (0)32-7580611 +421 (0)32-763-4200 +34 (0)33-665-3131 +46 (0)8-625-10-00 +46 (0)30-639040 +41-(0)52-6258425 +886-(0)2-2298-8899 +662-203-2800 +216-71 474 599 +90-216-969-2666 +240 (0)72-775100
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Malaysia Malta Maroco Myanmar Nepal Netherlands North America Norway Mexico Middle East Arab Countries & Cyprus Pakistan Peru Philippines Poland Republic of Moldova Romania Russia Saudi Arabia Singapore Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan Thailand	Mittric Sdn Bhd Flexible Automation System Sdn Bhd ALFATRADE LTD SCHIELE MAROC Peace Myanmar Electric Co.,Ltd. Watt&Volt 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. Rhona S.A. (Branch office) MELCO Factory Automation Philippines Inc. Edison Electric Integrated, Inc. Mitsubishi Electric Europe B.V. Polish Branch Intehsis SRL Sirius Trading & Services SRL Mitsubishi Electric Automation LLC Center of Electric Automation LLC Center of Electric Automation LLC PROCONT, Presov SIMAP Inea RBT d.o.o. CBI-electric Europe B.V. (Scandinavia) Euro Energy Components AB TriElec AG Setsuyo Enterprise Co., Ltd. MITSUBISHI ELECTRIC FACTORY AUTOMATION (THAILAND) CO.,LTD MOTRA Electric Mitsubishi Electric Europe B.V. Fierro Vignoli S.A.	 No. 3 Jalan Pentoetta 01/49, Tennasya industriar Pain, Gleinhaite 4010 Shah Alain, Selangoli, Malaysia 60, Jalan USJ 10/1B,UEP Subang Jaya, 47620 Selangor Darul Ehsan, Malaysia 99 PAOLA PILL, PAOLA PLA 1702, Malta KM 7,2 NOUVELLE ROUTE DE RABAT AIN SEBAA, 20600 Casablanca, Maroco NO137/139 Botahtaung Pagoda Road, Botahtaung Town Ship 11161, Yangon, Myanmar KHA 2-65, Volt House Dilibazar Post Box:2108, Kathmandu, Nepal Sluisjesdijk 155, NL-3087 AG Rotterdam, Netherlands 500 Corporate Woods Parkway, Vernon Hills, IL 60061 USA Leirvikasen 438, NO-5179 Godvik, Norway Bivd. Miguel de Cervantes Saavedra 301, Torre Norte Piso 5, Col. Ampliación Granada, Miguel Hidalgo, Ciudad de México, CP 11520, México Cebaco Center - Block A Autostrade Dora P.O. Box 11-1314 Beirut - Lebanon 2-P GULBERG II, LAHORE, 54600, PAKISTAN Avenida Argentina 2201, Cercado de Lima 128, Lopez Rizal St., Brgy. Highway Hills, Mandaluyong City, Metro Manila, Phillippines 24th FL Galleria Corporate Center, Edsa Cr. Ortigas Ave., Quezon City Metro Manila, Phillippines Krakowska 48, 32-083 Balice, Poland bid. Traian 23/1, MD-2060 Kishinev, Moldova RO-060841 Bucuresti, Sector 6 Aleea Lacul Morii Nr. 3 2 bid.1, Leinikovskaya street, Moscow, 115114, Russia Al-Shuwayer St. Side way of Salahuddin Al-Ayoubi St. P.O. Box 15955 Riyadh 11454 - Saudi Arabia 307 Alexandra Road, Mitsubishi Electric Building, Singapore 159943 Kupelna 17, SK - 08001 Presov, Slovakia Stegne 11, SI-1000 Ljubijana, Slovenia Private Bag 2016, ZA-1600 Isando Gauteng, South Africa Carretera de Rubi 76-08, E-08190 Soant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, 223 55 Lund, Sweden Jarno Derk, Ob., E-08190 Soant Cugat del Vallés (Barcelona), Spain Hedvig Möllers gata 6, S-434 24 Kungsbaccka, Sweden Jarwallers trase 1	+603-5569-3748 +603-5583-1280 +356 (0)21-697-816 +212 661 45 15 96 +977-1-4411330 +37 (0)10-487-19 11 +847-478-2100 +47 (0)55-506000 +52-55-3067-7511 +961-1-240430 +92-42-575232, 5753373 +51-1-464-4459 +63-(0)2-256-8042 +63-(0)2-256-8042 +63-(0)2-256-8042 +48 12 347 65 00 +373 (0)22-66-4242 +40-(0)21-430-40-66 +77 495 721-2070 +966-1-4770149 +65-6473-2308 +421 (0)51 -7580 611 +421 (0)31 - 7580 611 +440 (0)8-625-10-00 +34 (0)93-565-3131 +46 (0)30-690040 +41-(0)52-6258425 +886-(0)2-2298-8889 +66-223-4220-3 +662-092-8600 +216-71 474 599 +90-216-969-2666 +441 (0)1707-276100
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MITSUBISHI ELECTRIC CORPORATION HEAD OFFICE: TOKYO BUILDING, 2-7-3, MARUNOUCHI, CHIYODA-KU, TOKYO 100-8310, JAPAN