

CURRENT SENSOR

MODEL EMU-CT5-A. EMU-CT50-A. EMU-CT100-A. EMU-CT250-A

INSTRUCTION MANUAL

·EMU-CT5-A / EMU-CT50-A/ EMU-CT100-A/ EMU-CT250-A is split current sensor for energy measuring unit. ·Read this manual thoroughly before using the equipment for proper handling.

. This manual should be retained for the future reference ·Be sure that the manual is delivered to the end users.

. The following items for this device are included in package. Check that no items are missing. (1)Split current sensor x1 (2)Instruction manual x1

1. Safety Precautions

1.1 Frecautoris concerning working environment and condutions		
Do not use the unit in any of the following places. Doing so may cause malfunction	ons or a reduction in service life.	
 Places where the ambient temperature exceeds the working temperature range(-5°C to +55°C). 	Places where the daily average temperature exceeds +35°C. Places with a lot of vibration or impacts.	
 Places where the humidity exceeds the humidity range (30% to 85%RH) or where condensation occurs. 	Places exposed to direct sunlight. Places where the out of the cabinet.	
Places with a lot of dust, corrosive gas, sait or oily smoke. Places where the unit may be exposed to rain or drops of water. Places where metal pieces or inductive substances are laying around.	Places with strong electromagnetic field or noise. Place where the altitude exceeds 2000m.	

1.2 Precautions concerning preparations before using the equipment

Use the unit in the specified usage environment and conditions

·Check the current and voltage ratings of the equipment

	It and voltage ratings of the equipment.				
lake sure to us	the module by following cautions of this section.				
	Perform installation, disassembly, the wining work after intercepting a power supply by all means. There might be the damage of an electric shock or the product (-Do not install around non-insulated dangerous electric shock conductors that can cause electric shock, electric burn or arc flash. (S)				
Caution	Precautors concerning installation and connection? For safety, the unit must be installed and connected by experts in electrical work Lose an electric wire of the size of denotating this current sensor for a primary side cable, do not use a non-insulation electric wire or a metal for a primary cable. Connect the wine carbing: checking the wiring capitary interpreted in a current sensor for a primary side cable, do not use a non-insulation electric wire or a metal for a primary cable. Connect there carbing: checking the wiring capitary increment wire precises do not enter the equipment. Connect there carbing: checking the wiring capitary increment wire precises do not enter the equipment. Connect there carbing: checking the wiring capitary increment wiring concluse enter the equipment. Connect there carbing: checking the wiring capitary increment wiring concluse the wiring the sense. Connect the sense carbing the eminals (test than external form 7 2mm) apportate for which is suitable for electric wires (capitary). Connect the infelicity causes mathurchic on the machinery, touble, damage by a fire, the fire by outbreak of the poor disconnection and contact. +070 (xi77): Cooper conductor only Confirm that a terminal is closed surely. The lack of clamping causes mathurchic on the machinery, a fire, the electric shock. Carry out the carbing of the oriting lags by prescribed forque (0.49 to 0.78N·m). The excessive damping becomes the numation of a terminal and the serve. Keep the second terminals is const orthwy by the present sensor, and is used well, and follow t. Use the Karenet sensor in a damine tortarity. Connet sensor that the second terminal is const. So for the panel, the assumed that the signen the following matters. a) Is in excessive damined that the signen that points applies intercepted automatically is necessary when opening a cabinet. Deprese of protection (IP code) ineeds in higher than IP2X keed. "Precubinos				
1.4 Precautio	ns concerning maintenance				
▲ Caution	Protect the unit from a power failure. Failure to do so can cause unit failures, fires, or electric shocks. Wipe off the surface dirt with tender doth. Don't let chemical cloths touch it for a long time, and do not wipe it with benzine or thinner.				
1.5 Precautio	ns concerning inspection				
▲ Caution	Perform the check in the state that does not turn on electricity by all means. Check out the following. a) Does not this product have the damage? b) Are not there an abnormal sound, bad-smelling fever?				

c) Are not there installation, the slack of the screw?

1.6 P

. When storing the unit, turn off power, disconnect cables and wires, and put them in vinvl bags or the like.

- •When storing the unit for a long time, avoid keeping it in the places shown below.
- Places where the ambient temperature is out of the range from -10°C to +60°C. · Places where the humidity exceeds the humidity range (5% to 95%RH) or where condensation occurs.
- · Places where metallic particles or inductive substances are laying around.

 Places where the unit is exposed directly to rain, water droplets. ·Places where the daily average temperature exceeds +35°C. ·Places with a lot of vibration or impact ·Places with a lot of dust, corrosive gas, salt or oily smoke.

1.7 Precautions concerning disposal

Dispose this product appropriately in accordance with the national or community rule.

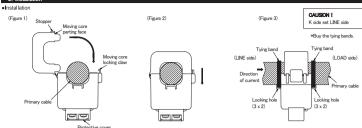
2. Installation

If you are considering using this unit for special

to our sales representative.

purpose such as nuclear power plants, aerospace

medical care, or passenger vehicles, please refer



1) Press the locking claw of the moving core, please open the moving core by removing the engagement (Figure 1). Before inserting the cable, check the symbols K and L to fit the current sensor in the correct direction. (The direction from the power supply side to the load side is indicated with →.) (Figure 3)

2) After checking that the core parting faces are free from dirt, close the moving core. Push down the moving core until the stoppers are securely locked. (Locking daw of the moving core is applied to the stopper, you hear click.) (Figure 2)

3) Pass the tying bands into the current sensor locking holes to secure the sensor with the cable.(Figure 3)

部件名利

<u>核心</u> 内部煌さ

第子

端子弟

螺钉

接线

*For the details, see the manual for combination measurement unit

*Applicable wire size in the table of specification is the normal sectional areas of 600V vinvi-coated cable. These values are the standard nominal sectional areas. These electric wires may not pass through the sensor owing to the error of the outer diameters of vinyl insulators finished by manufacturers or deformation (bending) of the wires. Check the wire on site.

Connection

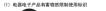
3. Specification

·For the details, see the manual for the combination measurement unit.

-See the manual, please wire the polarity (Power supply side, Load side), 1 side (R phase), 2 side (S phase), 3 side (T phase) and the polarity (k, l) of the secondary side of the CT to the k. I terminal of the measuring unit.

Model EMU-CT5-A		EMU-CT50-A	EMU-CT100-A	EMU-CT250-A
Rated primary current	5A AC~	50A AC~	100A AC~	250A AC~
Maximum voltage	460V AC~			
Frequency	45 to 65Hz			
Ratio error	±1% (5% to 100%of rating, RL=10 Ω) ±1% (5% to 100%of rating, RL=10 Ω)			
Phase displacement	±1.3 c rad (10% to 100% of rating, RL=10 Ω) ±1.8 c rad (5% of rating, RL=10 Ω)			±1.2 c rad (5% to 100%of rating, RL=10Ω)
Pollution degree	2			
applicable wire size (reference)	IV wire: 38mm ² CV wire: 22mm ²		IV wire: 60mm ² CV wire: 60mm ²	IV wire: 200mm ² CV wire: 150mm ²
Working temperature range	-5°C to +55°C (daily mean temperature: +35°C or less)			
Working humidity range	30% to 85%RH (no condensation)			

4. Contained harmful substances



(2) 产品中有害物质的名称及含量 本产品中所含有的6种有害物质的名称、含有信息及含有部件如下表所示 产品中有害物质的名称及含 有害物品 六价销 Cr (V

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根据《电器电子产品有害物质限制使用管理办法》。 这标记话用于在由国销售的由器由子产品 其中的数字为产品的环保使用期限。只要遵 守本产品在安全和使用方面的注意事项。从生产 日算起的环保使用期限内不会造成环境污染或对 人体、财产产生深刻的影响。 注)产品正常使用废弃后,应按照国家和地方的 法律法规完成该电器电子产品的回收和再利用。

۰ì	们信息及证	¥有部件如下#	支所示。					
量								
501			本表格依据 SJ/T11364 的规定编制。					
各)))	多溴联苯 (PB8)	多溴二苯醚 (PBDE)	〇:表示该有害物质在该部件所有均质材料中的含量					
	0	0	均在 GB/T 26572 规定的限量要求以下。					
	0	0	×:表示该有害物质至少在该部件的 某一均质材料中的含量 超出 08/126572 规定的限量要求。 且虽然目前业界没有成熟的替代方案,但是符合					
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5. Customer Service

MITSUBISHI ELECTRIC CORPORATION

Please refer to "catalog" or "user's manual (Details)" for more detail.