

CTM-3K

DEDICATED CURRENT & KCU COMMUNICATION MODULE INTERFACE FOR KUTAI CONTROL UNIT OPERATION MANUAL

Warning: Installation of the CTM-3K must be performed by qualified professional technicians. Improper installation may result in equipment damage.

● Specification

ELECTRICAL SPECIFICATION	
DC Power Input	9 to 36 Vdc
CT primary current	50 – 3000 A (Selectable)
CT secondary current	1A or 5A (Selectable)
CT Rated Burden	Greater than 5 VA
Static Power Dissipation	Under 1W @12Vdc

PHYSICAL SPECIFICATION	
Weight	329 g +/- 2%
	0.73 lb +/- 2%
Operating Temperature	-20 to +60 °C
Storage Temperature	-30 to +80 °C
Relative Humidity	Below 95%

● CTM-3K OUTLINE DRAWING

SW1 : No-load current zero calibration button

When the CTM-3K is normally connected to the controller, press and hold the zero calibration button for 3 seconds to perform no-load current zero calibration. When the L1 indicator alternately flashes red/green, the zero calibration is complete.

L1 : status indicator LEDs

- Steady Green: DC power supply ON
- Steady Red: Connection to the controller interrupted
- Flashing Green: Normal operation (CT secondary ratio 1A)
- Flashing Red: Normal operation (CT secondary ratio 5A)

J1: Communication cable connector

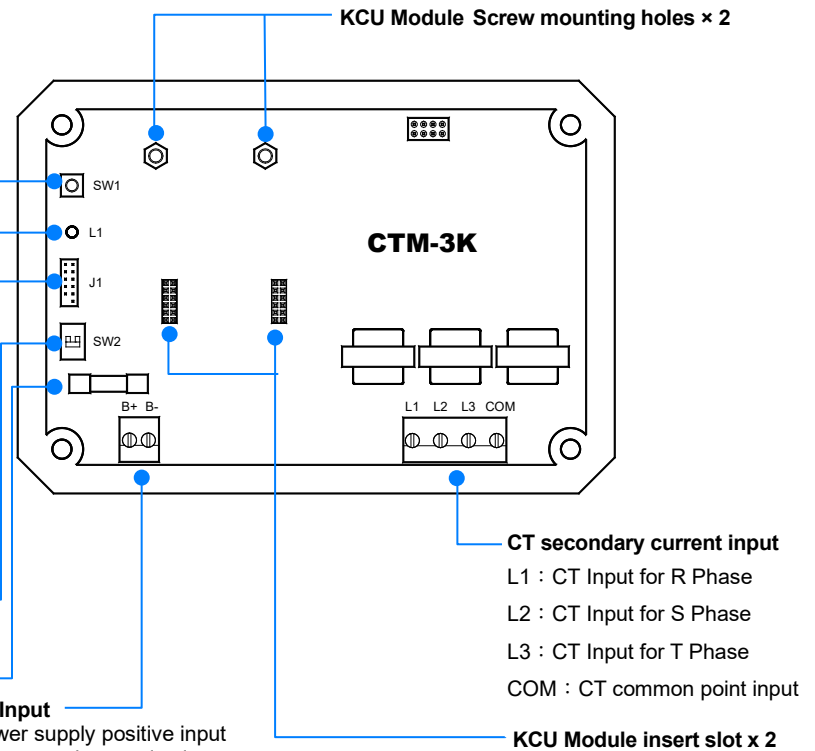
Foolproof design to prevent reverse connection

SW2: CT secondary current setting switch

ON - 1A / OFF – 5A

Protection Fuse : 2A / 250Vac

DC Power Input
 B+: DC power supply positive input
 B-: DC power supply negative input



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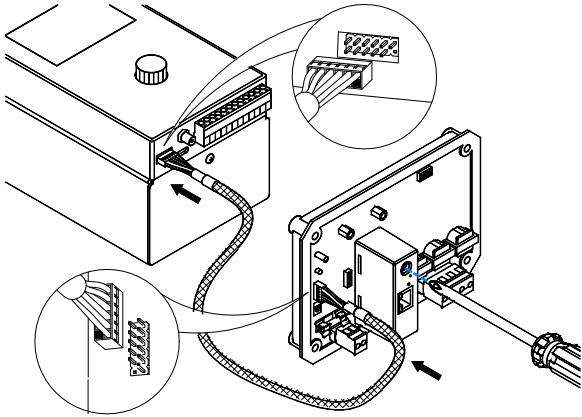
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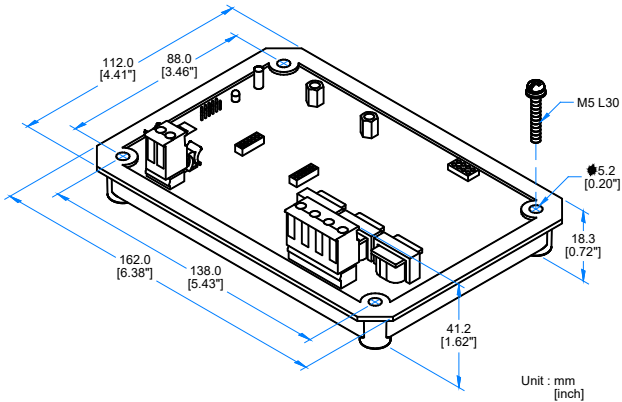
● Installation and Wiring Instructions



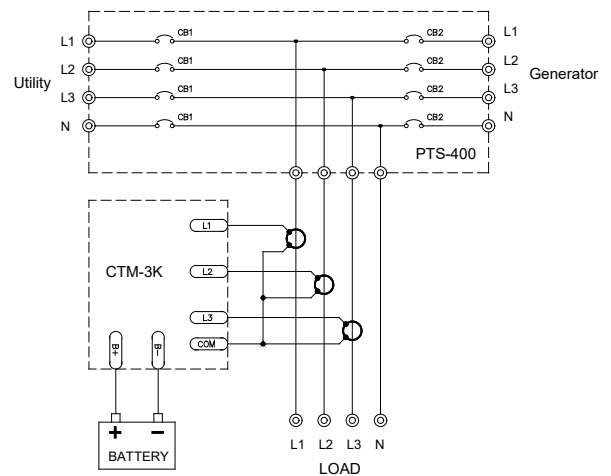
CTM-3K Installation Steps:

1. Mount and secure it at an appropriate location inside the electrical enclosure.
2. The load CTs use a 3P4W wiring and connect to CTM-3K terminal lugs.
3. Set the CT secondary rating to 1A or 5A according to the CT ratio.
4. Fasten the **KCU-XX** module onto the communication slot. The two slots have no order requirement and can be used freely. (If no KCU module is required, this step can be ignored.)
5. Connect the communication cable to the PTS control unit; the communication connector features a foolproof keyed design.
6. Connect the DC power supply (9 to 36 Vdc) to provide operating power for the CTM-3K. Do not reverse the positive and negative polarity.
7. Set the CT current ratio on the control unit

● Outline Drawing And Wiring Connection



Outline Drawing



Wiring Connection

● Accessories

Item	Part NO.	Description
Standard	HU-050-KCU-09	500 mm Connection Harness
Optional	HU-100-KCU-09	1000 mm Connection Harness