PM-3033 Quick Start

v1.3, February 2025

Packing List

In addition to this guide, the package includes the following items:

PM-3033/
PM-3033-CPS/
PM-3033-MTCP

Screw Driver * 1

Technical Support

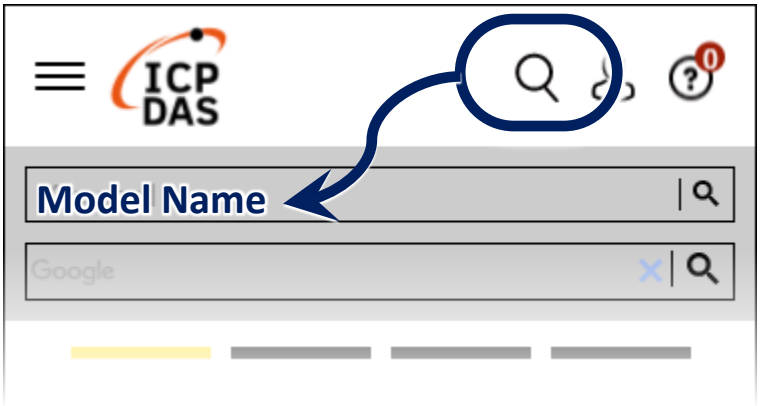
service@icpdas.com

www.icpdas.com

Resources

How to search for drivers, manuals and spec information on ICP DAS website.

- For Mobile Web



- For Desktop Web

1. Caution & Warning

The meter contains hazardous voltages, and should never be disassembled. Failing to follow this practice will result in serious injury or death. Any work on or near energized meters, meter sockets, or other metering equipment could induce a danger of electrical shock. It is strongly recommended that all work should be performed only by qualified industrial electricians and metering specialist. ICP DAS assumes no responsibility if your electrical installer does not follow the appropriate national and local electrical codes.

ICP DAS assumes no liability for any damage resulting from the use of this product. ICP DAS reserves the right to change this manual at any time without notice.

2. Installation

2.1.

- Please read this operation manual carefully before using.
- Please re-confirm the measure position.
- Reconfirm the RST (ABC) phase sequence of the power system.
- Meter auxiliary power for PM-3033 series is DC +12V ~+48V.

2.2.Voltage Input

1. Input Voltage up to 500V.
   For any higher Input Voltage large than 500V, please add the PT (power transformer), and Change PT RATIO setup.
2. Confirm the RST (ABC) phase sequence.

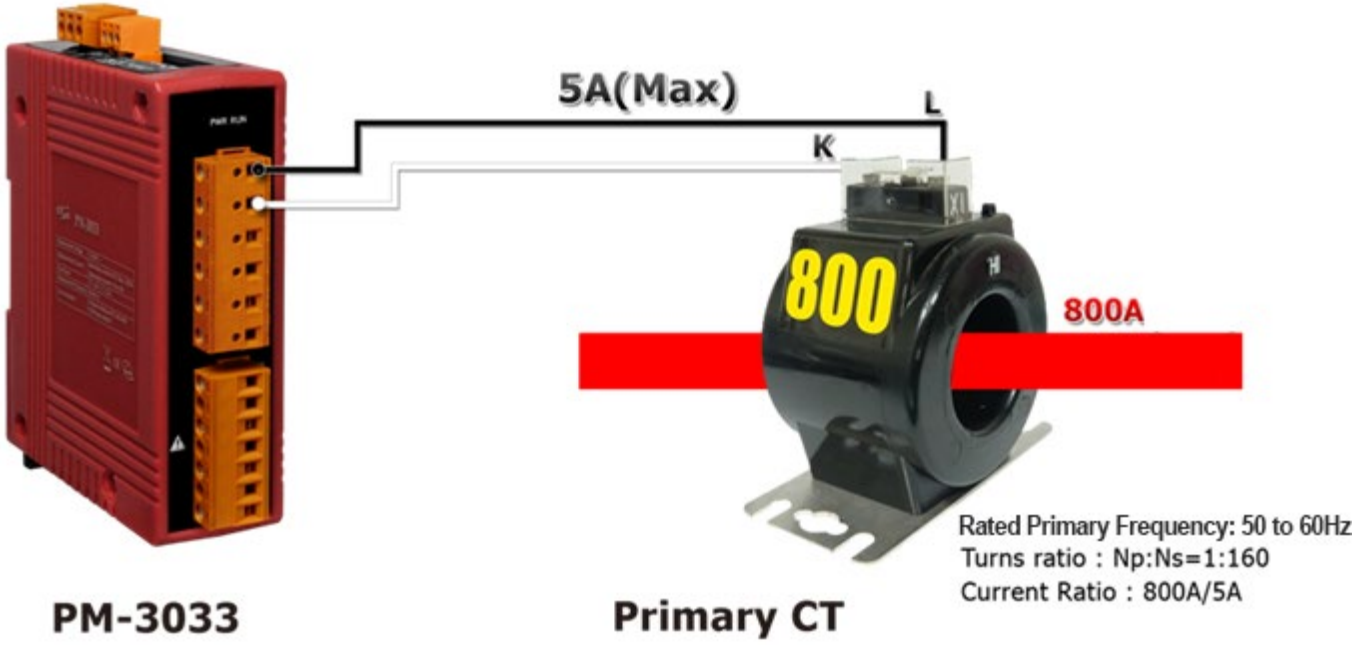
2.3. Current Input

1. CT with secondary side output 1A/5A can be connected directly.

2. The current direction must follow K-L marked on CT's.

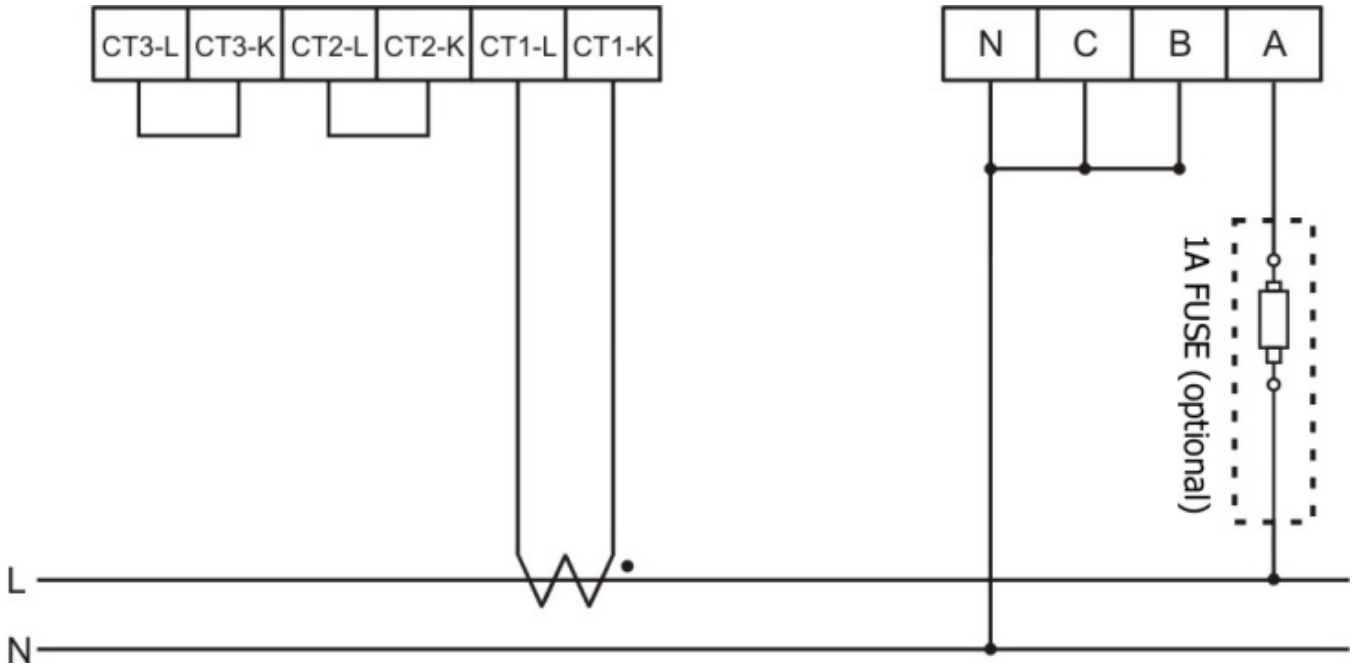
3. Please firstly check the current input terminal.
   Make sure the arrow direction sign on Primary CT's follows current flow direction（K→L）.
   Note: it must be in the same direction.
   Connect the voltage input terminal N C B A. for PM-3033 series, in the three phase order as follows on N C B A.

800A/5A Primary CT Installation and Wiring

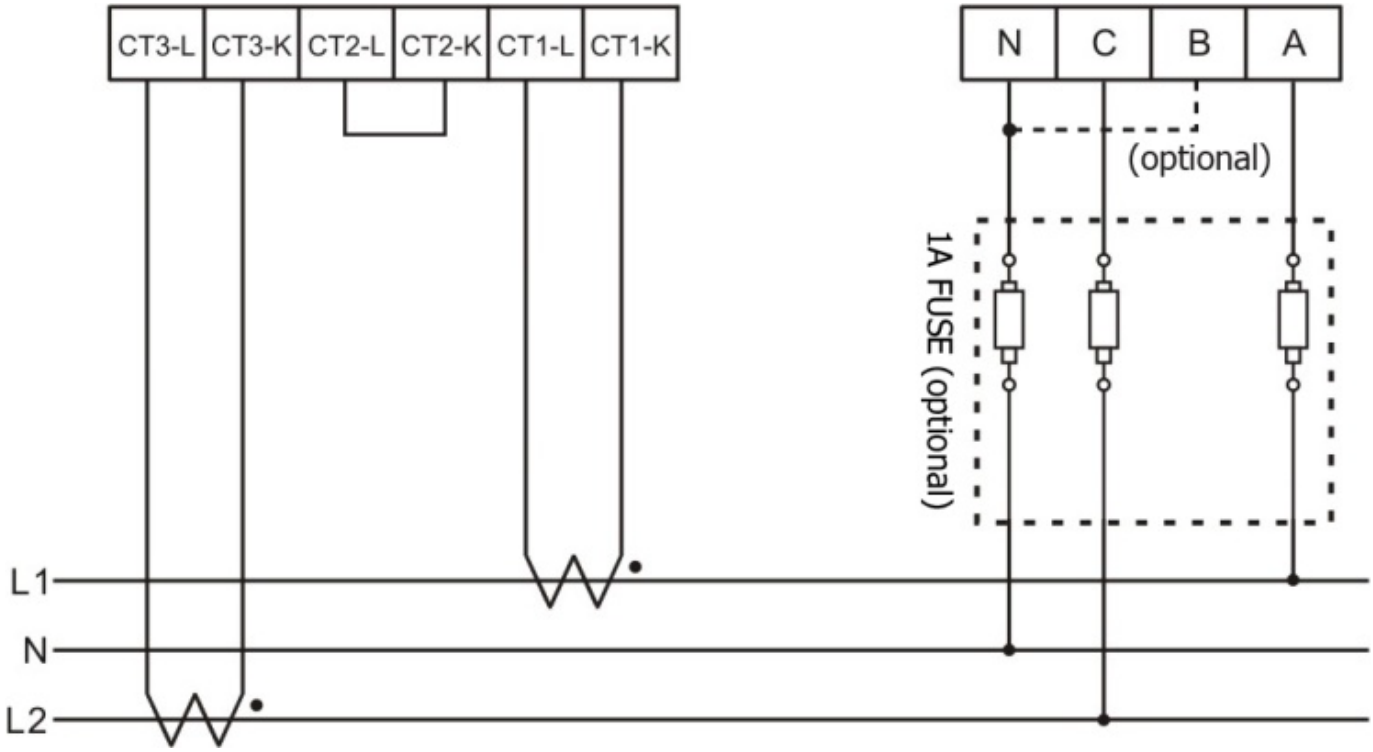


2.4.Wiring

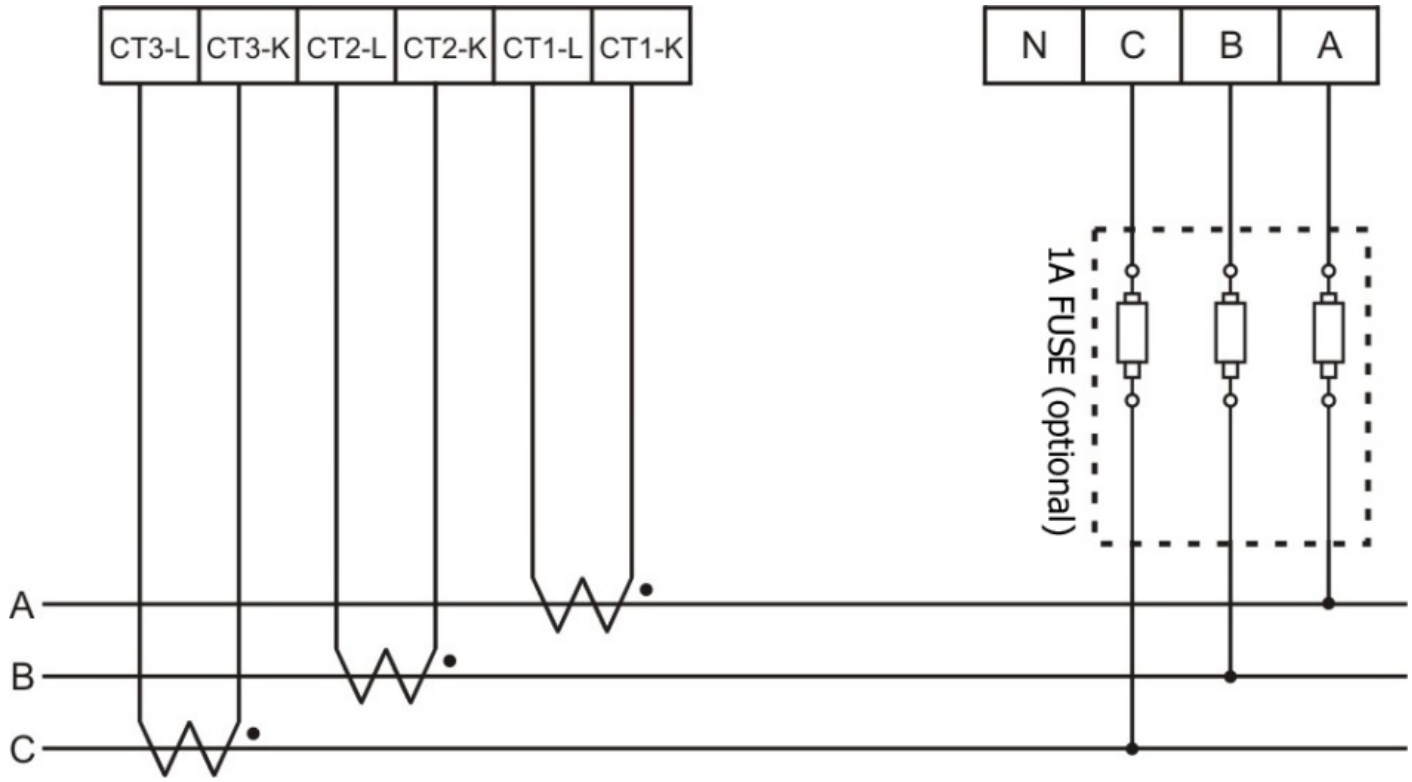
- 1P2W-1CT



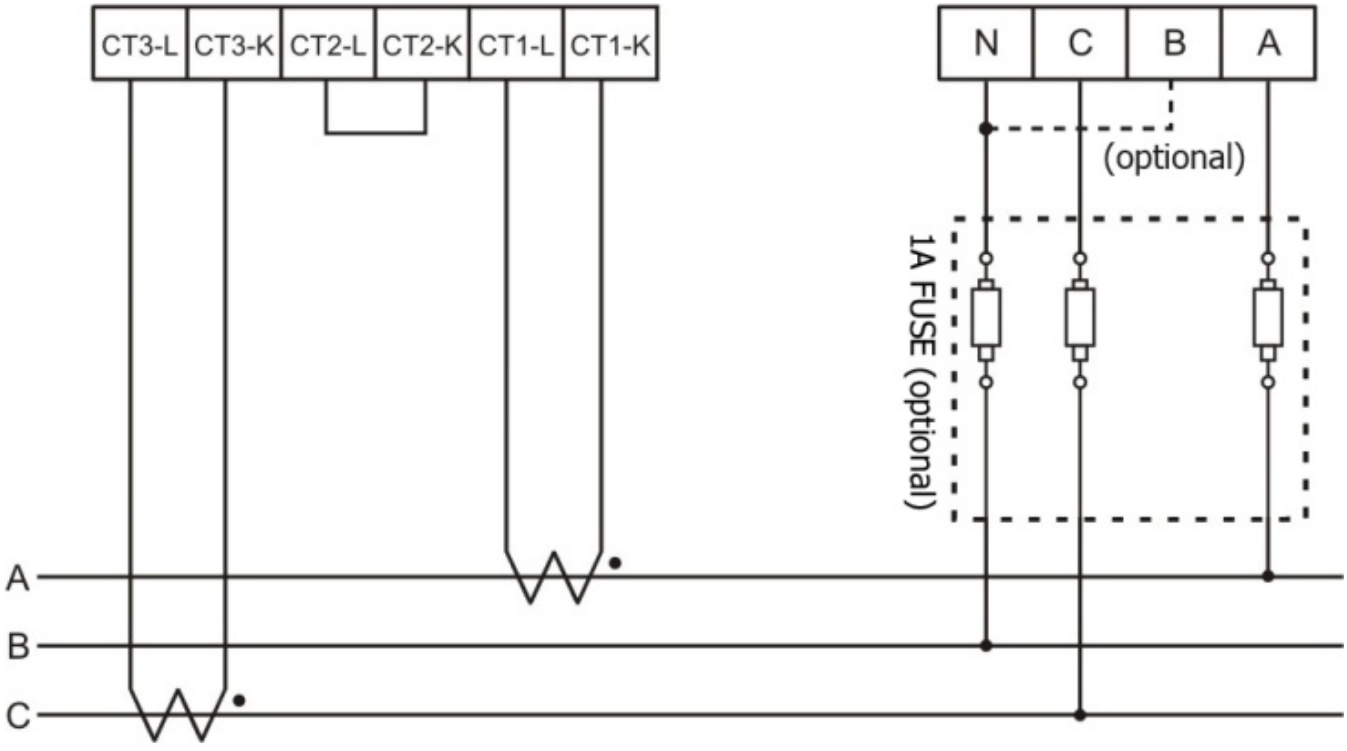
- 1P3W-2CT



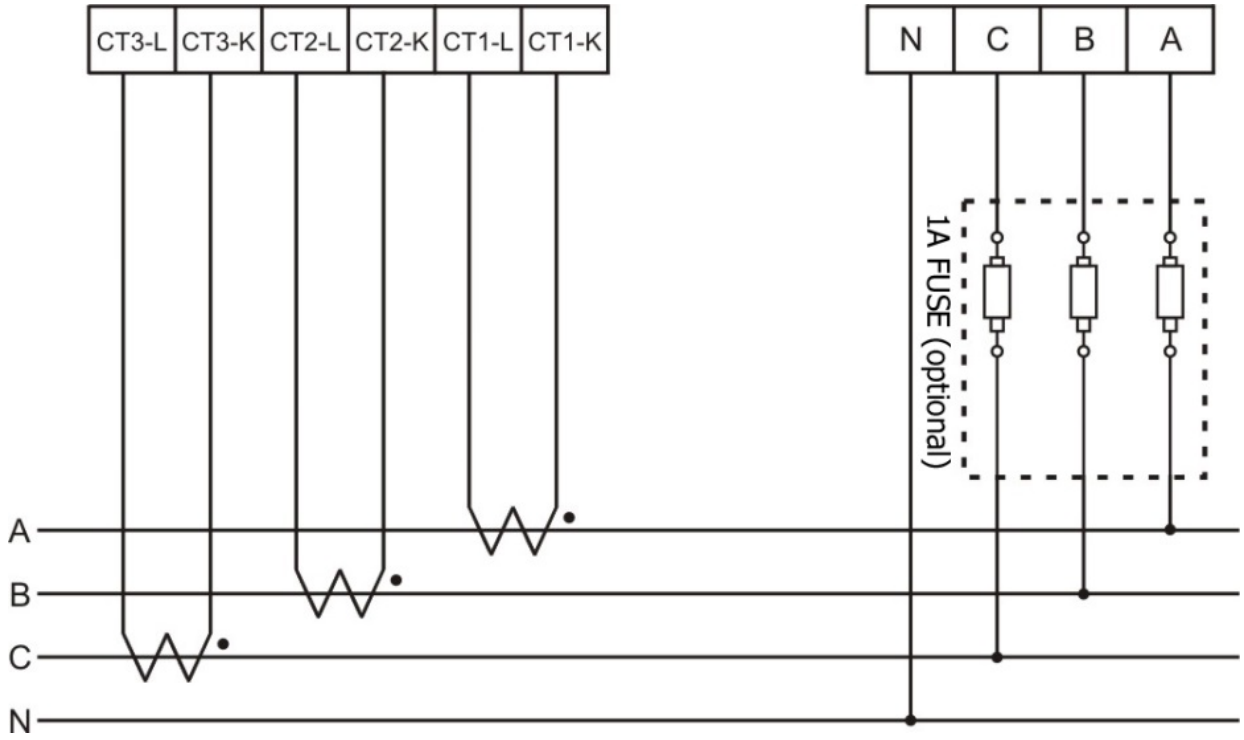
- 3P3W-3CT



- 3P3W-2CT

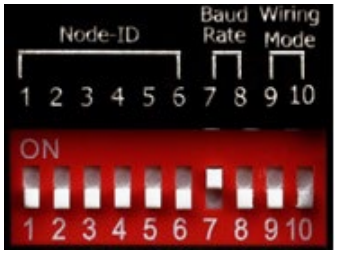


- 3P4W-3CT



3. Communication

3.1.RS-485 & CAN Setting



- Default setting for RS-485: **19200, n, 8, 1** ,for CAN: **125K bps**
- DIP switch (SW1-SW6) is used for Modbus address(or CANopen Node ID) setting, default is 1, i.e. all OFF

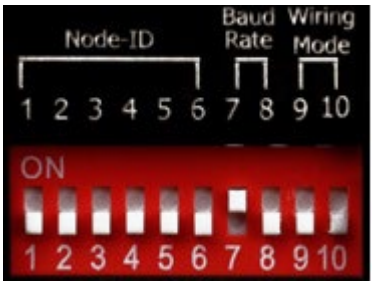
  For example: Modbus address(or CANopen Node ID) is 10，find the table of DIP switch 1-6 is **ON, OFF, OFF, ON, OFF, OFF**
- SW1—SW6 setting

  Setting Modbus-RTU address/CANopen Node ID for communication (1-64)

Modbus Address	SW 1	SW 2	SW 3	SW 4	SW 5	SW 6
1	OFF	OFF	OFF	OFF	OFF	OFF
2	**ON**	OFF	OFF	OFF	OFF	OFF
3	OFF	**ON**	OFF	OFF	OFF	OFF
4	**ON**	**ON**	OFF	OFF	OFF	OFF
5	OFF	OFF	**ON**	OFF	OFF	OFF
6	**ON**	OFF	**ON**	OFF	OFF	OFF
7	OFF	**ON**	**ON**	OFF	OFF	OFF
8	**ON**	**ON**	**ON**	OFF	OFF	OFF
9	OFF	OFF	OFF	**ON**	OFF	OFF
10	**ON**	OFF	OFF	**ON**	OFF	OFF

- SW7－SW8 For Baud Rate Setting

RS-485	CAN	SW 7	SW8
9600 bps	**125k (Default) bps**	OFF	OFF
19200 (Default) bps	**250k bps**	**ON**	OFF
38400 bps	**500k bps**	OFF	**ON**
115200 bps	**1M bps**	**ON**	**ON**



Select the different wiring mode
(Please select the Software setting, if 1P2W-1CT or 1P3W-2CT is used)

Models	PM-3033/ PM-3033-CPS		PM-3033-MTCP	
Wiring	SW 9	SW 10	SW 1	SW 2
Software setting	OFF	OFF	OFF	OFF
3P3W-2CT	**ON**	OFF	**ON**	OFF
3P3W-3CT	OFF	**ON**	OFF	**ON**
3P4W-3CT	**ON**	**ON**	**ON**	**ON**

Ethernet default settings：

IP Address	192.168.255.1
Subnet mask	255.255.0.0
Gateway	192.168.0.1
Port	502

For recovering to default settings, dip Init/Run Switch (SW 4) to Init position for 10 seconds after power on, the settings will be changed as default values. Must dip back to Run position and repower on after settings changed. User also can recover settings to default value by Modbus command.