

Multifunctional Power Meter

Quick Users Manual (CMM72)

Thank you for choosing the device of **MEIER Energy**. in order to facilitate your purchase and safe, correct and efficient use of the device, please read this manual carefully and pay attention to the following points when using it:

- ◆ The device must be installed and repaired only by qualified personnel.
- ◆ Before performing any internal or external operation to the device, make sure the CT input signal and the power supply are switched off
- ◆ Always use a properly rated voltage sensing device to conform that all power is off.

The following situation may result in damages to the meter or cause mistakes in the operation of the meter.

- ◆ The voltage of the auxiliary power supply goes beyond the rated range.
- ◆ The input polarity of the voltage or the current is incorrect.
- ◆ Remove or connect the communication plugs without powering off.
- ◆ Terminal connection is not connected as required.



Please don't touch the terminals when the meter is in operation!

1. Overview

CMM72 multi-functional power meter can measure the total electric parameters of electric load, and its perfect power metering and power quality analysis functions can be applied to all kinds of power monitoring systems. The product adopts large color screen, touch button and modular design, which makes the function configuration and operation easier.

Instrument has two extended interfaces, through the interface connection module, can expand the instrument function. The following points should be noted when installing modules:

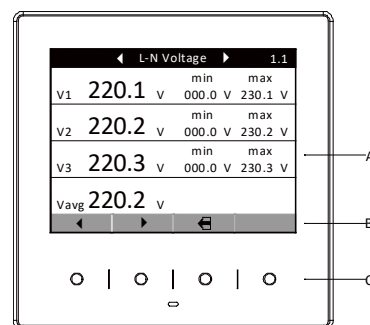
- Each interface is equipped with up to 2 modules, the meter can access up to 4 modules;
- Only one communication module can be installed per interface (FM7、FM8

and FM11). The communication module can not be the same except FM8 and FM11, interfaces;

- (b) In conformity with a), b), If required, Modules can be re-installed, And any combination. For example: four FM2 modules can be installed; Also can two FM2, one FM3, one FM11; or one FM2, one FM6, one FM11.

Type	Description
FM1	2 * AC digital inputs
FM2	4 * dry digital inputs
FM3	2 * relay outputs
FM4	2 * analog inputs: mA
FM5	2 * temperature inputs: PT100
FM6	2 * analog output: mA
FM7	RJ45, Modbus/TCP
FM8	DB9, Profibus-DP
FM11	RS485, Modbus-RTU
FM12	MBUS communication

2. Panel



A: Display B: Key function indication C: Button

Display Content Tips: The content currently displayed will be prompted in the upper left corner of each interface;

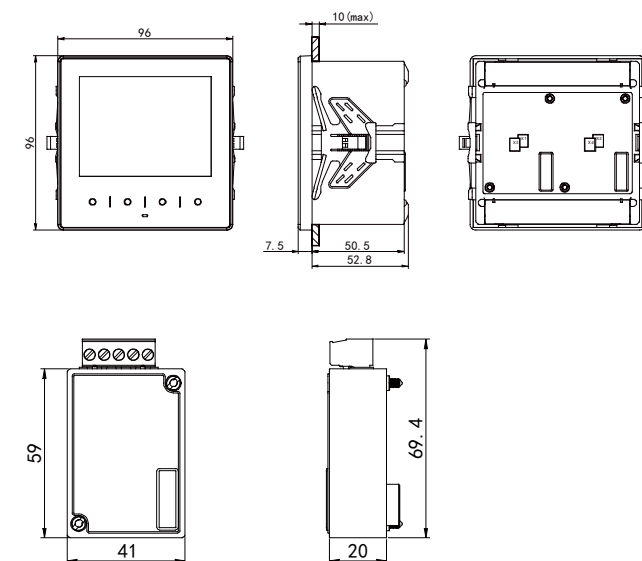
Page number: Each interface has a unique number, which is displayed in the upper right corner of the interface;

Data window: Display various data contents;

Key function: There are four key function prompt units at the bottom of each interface to prompt the current function of each physical key.

3. Installation

3.1 Dimension



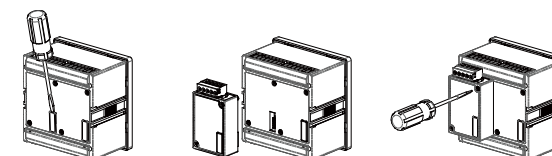
3.2 Installation

Open 91 × 91 hole in the fixed distribution cabinet;

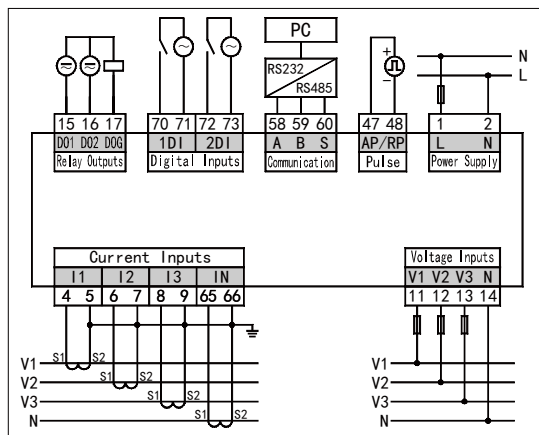
Take out the instrument and remove the fixed bracket;

The instrument is installed into the mounting hole from the front;

Insert the instrument fixing bracket to fix the instrument.



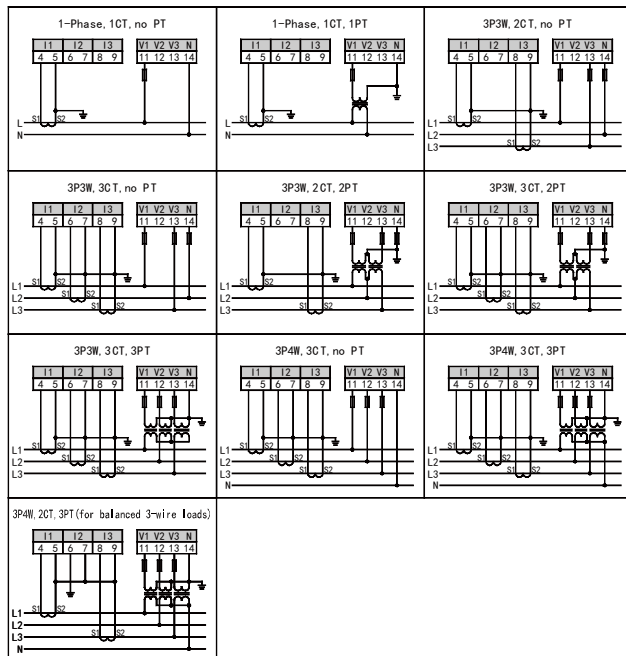
4.1 Typical wiring diagram



Fuse rated current: 0.5A

Please refer to the actual wiring mode.

4.2 Signal input wiring



In this example, the instrument wiring mode is modified as three-phase

three wire, the voltage range of input signal is 100V, and the initial voltage is 6000V. (It is assumed that the wiring mode of the instrument before programming is three-phase four wire, the voltage range of input signal is 100V, and the primary voltage is 10kV.)

