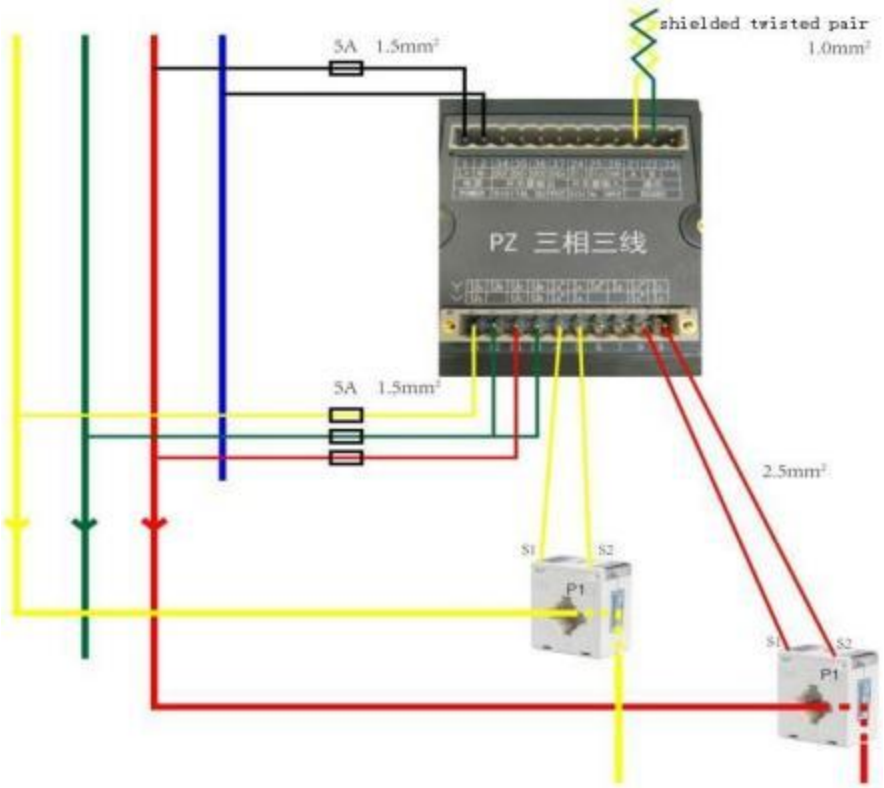
Acrel Multi-function Meter Wiring Instruction



Three-phase three-wire diagram

1. Terminal numbers 1 and 2 are auxiliary power supply: as shown in the figure above, connect the phase voltage 220V input. Among them, **the fire wire of the auxiliary power supply is installed 5A fuse**, the neutral wire is directly connected to the zero line copper bar.

2. Voltage wiring:

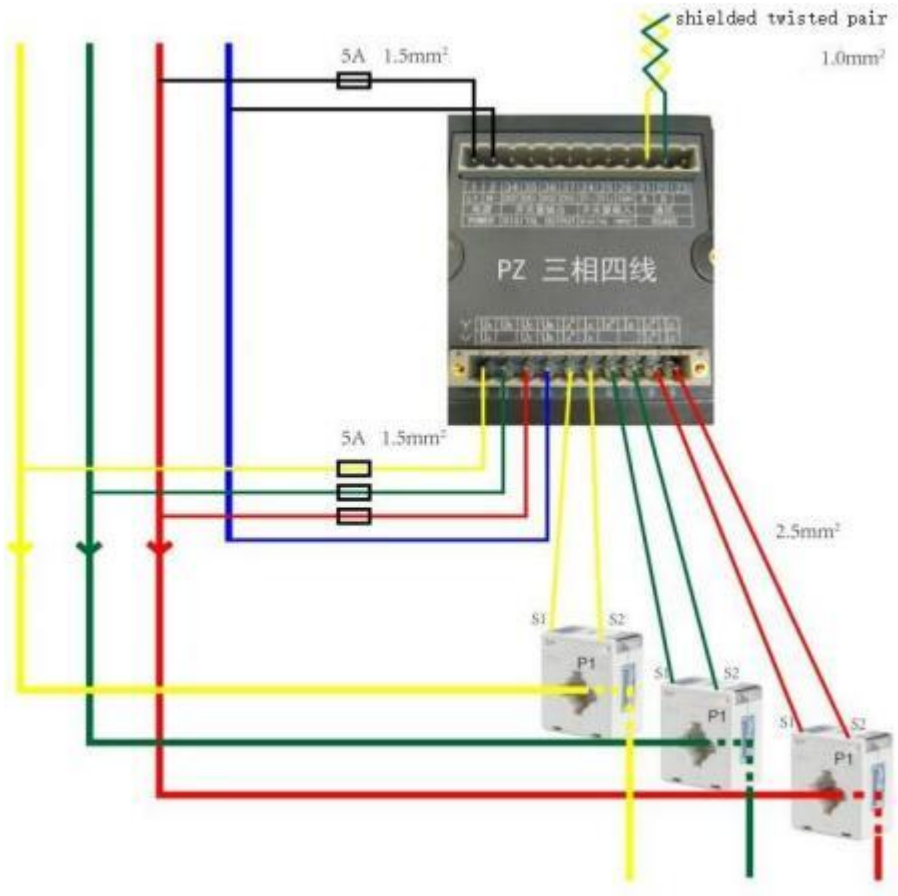
In the case of three-phase three-wire, the voltage signal terminals are connected in V-shaped wiring mode, 11 is connected to A-phase voltage, 12 is connected to B-phase voltage, 13 is connected to C voltage and 14 is connected to B-phase voltage; **the voltage wire is a 1.5 square BVR multi-core hard wire, and the live wire is connected to the meter. A 5A fuse needs to be installed between them.**

3. Current wiring:

In the case of three-phase three-wire, the current signal terminals are connected in a V-shape, and **the primary current of the transformer flows from the P1 side to the P2 side**; the output S1 of the A mutual inductor is connected to the 4th terminal, S2 is connected to the 5th terminal, the C mutual inductor S1 is connected to the 8th terminal, and S2 Connect to 9 terminals, **of which the terminal with * corresponds to the S1 terminal of the transformer; the current wire uses a 2.5 square BVR multi-core hard wire.**

4. Communication terminals: RS485 (A+, B-) A is connected to port 21, B is connected to port 22, **use RVSP2*1.0 square Core twisted pair shielded flexible wire.**

5. Be sure to wire according to the instructions, wrong connection will lead to inaccurate measurement. There are wiring diagrams on the side labels of the meter.



Three-phase four-wire diagram

1. Terminal numbers 1 and 2 are auxiliary power supply: as shown in the figure above, connect the phase voltage 220V input. Among them, **the fire wire of the auxiliary power supply is installed 5A fuse,** the neutral wire is directly connected to the zero row.

2. Voltage wiring:

In the case of three-phase four-wire, the voltage signal terminals are connected in a Y-shaped wiring mode, respectively corresponding to 11 connected to A-phase voltage, 12 to B-phase voltage, 13 to C voltage and 14 to N line; **the voltage line uses a 1.5 square BVR multi-core hard wire , a 5A fuse should be installed between the live wire and the meter.**

3. Current wiring:

In the case of three-phase three-wire, the current signal terminals are

connected in a V-shape, and **the primary current of the transformer flows from the P1 side to the P2 side**; the output S1 of the A mutual inductor is connected to the 4th terminal, S2 is connected to the 5th terminal, the C mutual inductor S1 is connected to the 8th terminal, and S2 Connect to 9 terminals, **of which the terminal with * corresponds to the S1 terminal of the transformer; the current wire uses a 2.5 square BVR multi-core hard wire.**

4. Communication terminals: RS485 (A+, B-) A is connected to port 21, B is connected to port 22, **use RVSP2*1.0 square multi-core twisted pair shielded flexible wire.**

5. Be sure to wire according to the instructions, wrong connection will lead to inaccurate measurement. There are wiring diagrams on the side labels of the meter.

Acrel after-sales Service Department

August 8th 2018