FU2010

SOLAR ELECTRIC DIN SMALL THREE PHASE POWER METER

FU2010 DIN power meter is a multi-function electric solar DIN small three phase power meter without displaying. It can measure all the parameters in three phase system. Simple hardware circuit and high reliability. One DC4-20mA output is optional. It is a versatile transducer. With RS485 port, RTU-Modbus protocol. It's a low-cost power meter, be used in various control system, energy management system, residential power monitoring, industrial automation, smart buildings etc.

Application

1. Airport;
2. Power plant;
3. Industrial system;
4. Intelligent building;
5. Power monitoring system;
6. Photovoltaic power station;
7. Commercial, industrial, utility;
8. Low voltage distribution cabinet;
9. Industrial and mining enterprises;
10. Mobile communication company;
11. Medium and low voltage systems;
12. Energy consumption monitoring system;
13. Electric energy metering of photovoltaic power station;
14. Metering of distribution feeders, generators, capacitor banks and motors;

Features

1. DIN type installation;
2. Small dimension designed;
3. 3P4W, 3P3W wiring modes;
4. Multi-function power meter;
5. Can be as a versatile transducer;
6. Can configurable 5A/1A CT input;
7. RTU-Modbus comunication protocol;
8. Programmable PT/ CT ratio arbitrarily;
9. Simple hardware circuit and high reliability;
10. Economic type without display power meter;
11. With RS485 port, suite for all kinds of baud rate;

Parameters

Electrical parameters	
Power supply (AC/DC)	AC 85-265V / DC 85-330V or 18-90V DC Power consumption: <3VA
Measurement parameters	Voltage (Ph-N); Voltage (Ph-Ph); Current; Frequency; PF; Active Power (W); Reactive Power (Q) ; Apparent Power(S)
Computation	Forward active power energy Reverse active power energy Forward reactive power energy Reverse reactive power energy
Measuring range	30-600V, 0-6A, 45-65Hz, -1 ~ 0 ~ 1
Measuring accuracy	Frequency: 0.1% Electric energy: 0.5%, 1.0% Voltage : 0.2%±0.1V Current : 0.2%±0.001A Power : 0.5% ±0.4W Power Factor : 0.5% ±0.001
Display	Indication of power supply, energy pulse and communication.
Communication	Support RS485 interface port, 32 (128) networking, Modbus-RTU communication protocol.
Analog output (expansion module)	DC 4-20mA output, programmable to any measured
Programmable	Measuring system: 3P4W/3P3W etc. Transformation ratio: PT, CT. Communication: Address: 1-247; Baud: 1200-19200; Parity bit: N/E/O Energy: reset
Connection mode	3P4W, 3P4W BAL, 3P3W, 3P3W BAL, 1P2W, 1P3W
Standard	EN610101:2010; EN61010-2-030:2010; EN61326-1:2013; EN61000-3-2:2014; EN61000-3-3:2013; IEC61000-4; IEC61557-12; IEC60068-2-1/2/30 IEC 62052-11; IEC 62053-21; IEC 62053-22
Mechanical parameters	
Dimensions (L x W x H) (mm)	110x75x68.5
Mounting	35mm DIN sliding-way or M4 screws
Environmental conditions	
Temperature	-15 to +55°C
Humidity	20%-95%RH, without condensation