

FU2030

MULTIFUNCTION MINI DIGITAL PANEL LED POWER METER

FU2030 electrical panel power meter is a LED display power analyzer, metering and displaying all the measured parameters in one circuit and computing four quadrants energy. This model can work in wide temperature range from -25°C to 55°C. The FU2030 panel power meters are easy-to-use, cost effective meters that offer the basic measurement capabilities required to monitor an electrical installation. Characterised by their rugged construction, compact size, and low installation costs, these state of the art multi-function meters are ideal for control panels, motor control centers and genset panels. The FU2030 LED power meter is available in basic version to better fit specific applications with an RS485 port for Modbus communication protocol.

Features

1. 4-line LED with backlight;
2. Work in wide temperature range;
3. Direct voltage input up to 600V / AC;
4. Measure all the electrical parameters;
5. Multifunction digital panel power meter;
6. 4-20mA analog output module is optional;
7. 3×220/380V, 3×5A, 3P4W, 3P3W optional;
8. Auto scrolling mode allows for easy reading;
9. 120×120mm panel installation, 92×92mm trepanning dimension;
10. The meter conforms to accuracy class 1.0 as per IEC 62052-11 and IEC 62053-21;
11. Directly display primary measured value, and programmable PT/ CT ratio arbitrarily;
12. There are six wiring modes: 3P4W, 3P4W balance, 3P3W, 3P3W balance, 1P2W and 1P3W;



Application

1. Airport, Subway, Hotel;
2. Data transmission center;
3. Power monitoring system;
4. Low voltage distribution cabinet;
5. Electric energy metering cabinet;
6. High voltage distribution cabinet;
7. Industrial and mining enterprises;
8. Medium and low voltage systems;
9. Energy consumption monitoring system;
10. Metering of distribution feeders, motors;
11. Commercial, industrial, electricity power utility;
12. Electric energy metering of photovoltaic power station;

Parameters

Electrical parameters	
Power supply (AC/DC)	AC 85-265V/DC 85-330V Power consumption: <6VA
Class	1.0
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 active 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	LED Display, 4 Displays. 4 operation keys.
Communication	RS-485 interface port support, 32 (128) Networking, ModBus-RTU communication protocol.
Analog output (expansion module)	DC 4-20mA output optional, 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 (mm)	Mounting panel: 120x120 Thickness: 21 Depth: 118
Weight	650g
Mounting	Panel mounting Trepanning: 92x92mm

Environmental conditions

Temperature	-25 to +55°C
Humidity	20%-95%RH, without condensation