

FU2030

THREE PHASE MULTIFUNCTION LED DIGITAL ELECTRICAL PANEL POWER METER

FU2030 electrical 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. 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

Features

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



Application

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| 1. Data transmission center; | 2. Power monitoring system; |
| 3. Commercial, industrial, utility; | 4. Low voltage distribution cabinet; |
| 5. Electric energy metering cabinet; | 6. Medium and low voltage systems; |
| 7. High voltage distribution cabinet; | 8. Low voltage distribution cabinet; |
| 9. Electric energy metering cabinet; | 10. Industrial and mining enterprises; |
| 11. Medium and low voltage systems; | 12. Energy consumption monitoring system; |
| 13. Metering of distribution feeders, motors; | 14. Electric energy metering of photovoltaic power station; |

Parameters

Electrical parameters	
Power supply (AC/DC)	AC 85-265V/DC 85-330V Power consumption: <6VA
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	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, 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
Mounting	Panel mounting Trepanning: 92x92mm
Environmental conditions	
Temperature	-25 to +55°C
Humidity	20%-95%RH, without condensation