

Energom-94-Z / Energom-94-L

Economic Power Meter
Three phase for panel mounting

Description

Low cost design digital power meter, provide RS-485 communication port, easy for user connect to PLC and build SCADA system.

Higher measurement accuracy and system stability, it is cost effective ideal for OEMs and panel builders solution. (Option LED display screen)

Features

- PMD measurement accuracy class 0.5
- Current measuring .../5 or .../1 A
- Backlit LCD display
- Universal series power supply (85-265VAC/DC)
- Expandable input / output modules (up to 3 modules)
- With RS-485 Modbus/RTU Communications
- Optional 2 channel Pulse Output (PO) for active energy&reactive energy counting
- Optional 1 channel Analog Output (AO)
- Optional 4 channel Digital Input (DI) and 2 channel Digital Output (DO)



Technical characteristics

Current measurement on inputs (TRMS)

CT secondary	1 or 5 A
Measurement range	0 ... 11 kA
Input consumption	<0.1 VA

Voltage measurement (TRMS)

Measurement range	18 ... 400 VAC
PT secondary	100VAC/400VAC
Frequency	50 / 60 Hz
Input consumption	<0.1 VA

Electrical power measurement (IEC61557-12)

Accuracy (V,I)	0.50%
Accuracy (P,Q)	0.50%

Frequency measurement

Measurement range	45 ... 65 Hz
Accuracy	±0.02Hz

Energy accuracy

Active energy	Class 1.0 (IEC 62053-21)
Reactive energy	Class 2.0 (IEC 62053-23)

Auxiliary power supply

AC voltage	DC/AC 85~265 ± 10 %
Frequency	50 / 60 Hz
Consumption	< 10 VA

I/O port, configuration as ordering info

Optical outputs (PO)	2* Pulse, 1600imp/kWh
Relay outputs (DO)	2* 5A@250Vac / 5A@30Vdc
Status Inputs (DI)	4* Dry contact
Analog output (AO)	1* 4~20mA, load <390Ω, or 0~10V, load >100KΩ
Isolation	1kVac r.m.s

Communication

Link	RS485 (2/3 wires half duplex)
Protocol	Modbus RTU mode
MODBUS speed	4800/9600bauds