

## Energom-94-Y

Multi-function Power Meter  
Three phase for panel mounting

### Description

Three phase electrical network power quality detection device, provide energy consumption and generate; THD (Total Harmonic Distortion); Harmonic individual data reading.

Build-in 4 tariffs energy logger function, with onboard memory can record last three month energy data, free to set max 12 segment record period, can be use as a commercial billing unit.

### Features

- PMD measurement accuracy class 0.5s
- Current measuring .../5 or .../1 A
- Backlit LCD display
- Universal series power supply (85-265VAC/DC)
- Record and read multi- tariffs ratio, Up to 3 months
- 15th individual harmonic
- With RS-485 Modbus/RTU Communications
- Optional Ethernet, TCP/IP or MODBUS-TCP
- With 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)	0.20%
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	2kVac r.m.s

#### Communication

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