

EngyVolt RV12



More information and current pricing:

www.ch.endress.com/RV12

Benefits:

- Multifunctional
- Pulse output and RS485 MODBUS output
- Top-hat rail installation
- Easy to use

Specs at a glance

- **Input** AC 110 - 400 V +/- 10% (110 - 300 V for installations acc. to UL) DC 120 - 350 V +/-20% (120 - 300 V for installations acc. to UL)
- **Output** MODBUS RTU (RS485) Pulse output
- **Display** triple-spaced background illuminated LCD-display
- **Calculations** Measuring voltage, frequency, current, power, as well as imported and exported active and reactive power.

Field of application: The multifunctional electrical energy meter is designed to measure, display and transmit electrical measured values in low-voltage systems with a maximum nominal voltage of 500 V L-L, current is connected via low-voltage current converter. It is suitable for use in single-phase power systems, and in three-phase power systems with three or four wires. The EngyVolt RV12 measures voltage, frequency, current, power, power factor, THD, active and reactive energy.

Features and specifications

Energy & Application Manager **Measuring principle**

Measuring principle

Electric Meter

Energy & Application Manager Function

Measuring, visualization and transmission of electrical measuring values within low voltage installations (max. 500 V L-L, 289 V L/N).

Use in 1phase as well as 3phase grids.

Typical applications: industry, e. g. Food&Beverage, Chemistry, Pharma etc.

Calculations

Measuring voltage, frequency, current, power, as well as imported and exported active and reactive power.

Number of applications

Not defined

Data storage

Not defined

Calculation standards

Not defined

Communication

Modbus RTU

Power supply

Not defined

Loop power supply

100 - 400 V AC

Protection class

IP30

Input

AC 110 - 400 V +/- 10% (110 - 300 V for installations acc. to UL)

DC 120 - 350 V +/-20% (120 - 300 V for installations acc. to UL)

Output

MODBUS RTU (RS485)

Pulse output

Energy & Application Manager **Dimensions (WxHxD)**71.3 x 90.5 x 58 mm (2.81" x 3.56" x 2.28")

Operation4 button on site at the front side of the multifunctional measuring device

Displaytriple-spaced background illuminated LCD-display

Software functions

Measured process variables:

Current (A), voltage (V), calculated neutral current (A), frequency (Hz) in low-voltage systems

Calculated process variables:

Power factor (PF = cos phi), real power (W), reactive power (VAR)

Apparent power (VA), imported and exported active (kWh) - and reactive energy (kvarh) and total harmonic distortion (THD)

Certificates

CE

IEC 60529

IEC 61010-1: 2001 Cor 2003

More information www.ch.endress.com/RV12