

# EngyVolt RV12



More information and current pricing:

[www.au.endress.com/RV12](http://www.au.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

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**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.

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**Calculations**

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

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**Number of applications**

Not defined

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**Data storage**

Not defined

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**Calculation standards**

Not defined

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**Communication**

Modbus RTU

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**Power supply**

Not defined

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**Loop power supply**

100 - 400 V AC

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**Protection class**

IP30

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**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)

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**Output**

MODBUS RTU (RS485)

Pulse output

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

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**Operation**4 button on site at the front side of the multifunctional measuring device

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**Display**triple-spaced background illuminated LCD-display

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**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)

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**Certificates**

CE

IEC 60529

IEC 61010-1: 2001 Cor 2003

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