

ITEM CODE: TRD-EMS-WAGO Power Measurement Module

ITEM NAME: 3-Phase Power Measurement; 690 VAC, 1 A

Lead Time 5-7 Days

Description:

The 750-495 3-Phase Power Measurement Module allows measurement of electrical data in a three-phase supply network.

The voltage is measured via network connection to L1, L2, L3 and N.

The current of the three phases is fed to I1, I2, I3 and IN (two clamping points each +,-) via current transformers or via Rogowski coils for the 750-495/000-002 Module.

The 3-phase power measurement module transmits all metrics (e.g., reactive/apparent/effective power, energy consumption, power factor, phase angle, frequency, over-/undervoltage) directly to the process image, without requiring high computing power from the controller. Both comprehensive metrics and harmonic analysis up to the 41st harmonic permit extensive network analysis via the fieldbus. These metrics enable the operator to optimize supply to a drive or machine, protecting the system from damage and failure. Insulation failures can be detected and prevented via current measurement performed in the neutral conductor. The four-quadrant display indicates the load type (inductive, capacitive) and whether it is an energy consumer or producer.

Width	24 mm / 0.945 inches
Height	100 mm / 3.937 inches
Depth	67.8 mm / 2.669 inches
Depth from upper-edge of DIN-rail	60.6 mm / 2.386 inches
Mounting type	DIN-35 rail
Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	2.001MJ
Weight	90.7g
Conformity marking	CE

Environmental Requirements:

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-40 ... +85 °C
Protection type	IP20
Pollution degree	2 per EN 60664-1

Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal up, vertical top and vertical bottom
Relative humidity (without condensation)	95%
Vibration resistance	4g per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3
Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25ppm

CE Certified:

- **2011/65/EU** (EN IEC 63000:2018)
- **2014/30/EU** (EN 61000-6-2:2005, EN 61000-6-3:2007+A1:2011, EN 61131-2:2007, EN IEC 61000-6-2:2019, EN IEC 61000-6-3:2021)
- **2014/35/EU** (EN IEC 61010-2-030:2021+A11:2021, EN IEC 61010-2-201:2018)