

Power Meter

Single-phase 17,5mm for Universal TA

The smallest single-phase Power Meter capable in managing any type of current sensors.

Ready to be integrated in the acquisition and monitoring systems.

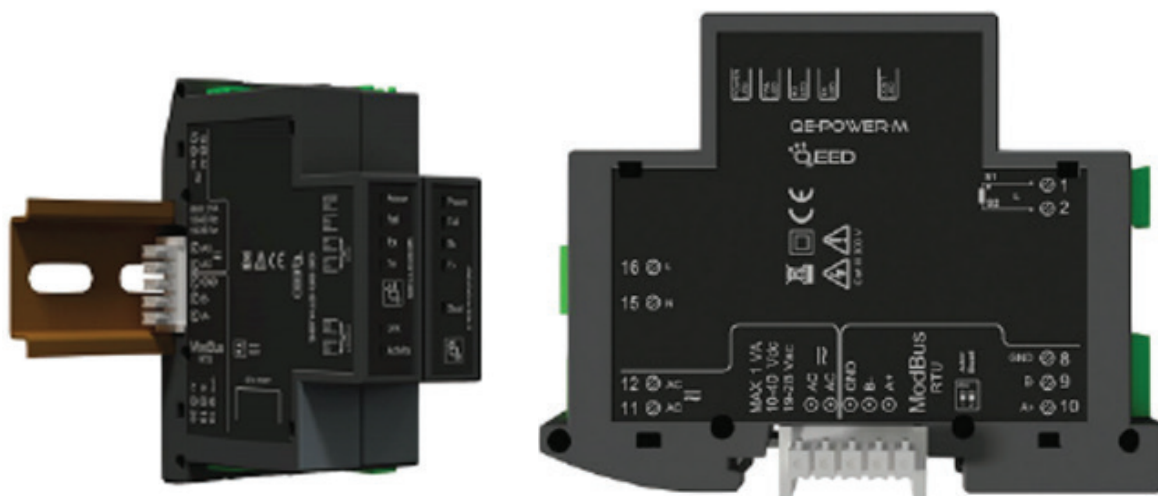
RS485 Modbus RTU output and configurable digital contact. Universal input for Amperometric transformers and three versions to satisfy any measurement requirement.



Technical Data Sheet

MODEL	QE-POWER-M
CURRENT ENTRY	1 A / 5 A Sonde di Rogowski 0...333mV

TECHNICAL DATA	STANDARD	PLUS
POWER SUPPLY	10...40 V DC o 19...28 V AC - 50/60Hz	
CURRENT ENTRY	Direct connection up to 500V RMS maximum (40...70Hz) Transformation ratio for configurable Current and Voltage	
OUTPUTS	RS485 Mobus RTU and Digital Contact SPST (< 40 V, <100mA)	
AVAILABLE MEASUREMENTS	I rms, V rms I pk, V pk Active power (W) Reactive power (VAR) Apparent power (VA) Frequency Power Factor (Inductive/Capacitive) Energy (kWh) Bidirectional Energy (kWh), positive and negative Active and Reactive Energy (kVARh), Inductive/Capacitive Peak Factor	
	-	Tanφ phase and medium (Inductive/Capacitive) Medium Power Factor
	-	Power Distortion Factor (Inductive/Capacitive) and medium
	-	THD (V, I)
	-	Minimum, medium and maximum Powers
	-	Maximum Requirement at 15 minutes Storage (monthly) of the achieved maximum Requirement (Month, Day, Hour, Minutes) Time beyond configurable threshold
	-	K Factor (in accordance with IEEE Standard 1100-1992)



Other features

Accuracy (@25°C, 50Hz)	QE-POWER-M
VOLTAGE (Un: 230/400 V)	+/- 0,5% RDG (10...100% Un)
CURRENT (In= 5A)	+/- 0,5% RDG (5...100% In)
FREQUENCY	+/- 0,1 Hz da 40 a 70Hz;
POWER	ACTIVE: +/- 0,5% RDG ; REACTIVE : +/- 0,5% RDG
ENERGY	ACTIVE: Class C in accordance with Norm EN50470-1/3 or Class 0,5 S in accordance with Norm EN62053-22 REACTIVE: Class 0,5 S in accordance with Norm EN62053-24

ABSORPTION	< 500mW @ 24V DC
SAMPLING SPEED	6400 Hz @ 50Hz
BAUDRATE RS485	da 1200...115200 Baud (standard 9600)
THERMAL DRIFT	< 100ppm/°C
WORKING TEMPERATURE	-10°C...+60°C
STORAGE TEMPERATURE	-20°C...+85°C
RELATIVE HUMIDITY	10... 90% non-condensating
HEIGHT	Up to 2000 m s.l.
FASTENING SYSTEM	On DIN rail, arranged for assembly with T-BUS connection
CONNECTORS	n°4 extractable terminals: n°2 two-poles 3,5mm pitch, n°1 two-poles 5,08mm pitch, n°1 three-poles 3,5mm pitch
DIMENSIONS	93 x 17,5 x 68,3 mm (excluded terminals)
WEIGHT	60 gr.
DIP-SWITCH	Two-poles (Baudrate and Address) for the connection with an configurable EASY software passo 3,5mm
LED	N°5: Power (Green), Comm (Yellow), TX and RX (Red), Digital contact (Green)
REGULATORY REFERENCES	EN61000-6-2; EN61000-6-4; EN61000-4-2; EN61000-4-3; EN61000-4-4; EN61000-4-5; EN61000-4-6; EN61010-1; EN61010-2-30