



M1000

Measuring transducer

M1000 provides true RMS measurements for three-phase power network at substations, power plants and industrial utilities. M1000 measures frequency, voltages, currents, powers, energies, etc. Averaging interval of measures is settable from a range of 200 to 2000 ms, while instant values are updated every 50 ms.

M1000 easily integrates with automation control systems through RTU or independently. The built-in digital inputs and outputs enlarge M1000 use cases.

Device has a compact housing with DIN rail mounting.



MEASUREMENTS	rated current: 1 or 5 A, rated voltage: 57.7 (100), 230 (400) V, 400 (690) V; U: ±0.2 % (input range: 20–150 %); I: ±0.2 % (input range: 20–200 %); P, Q, S: ±0.5 %; f: ±10 mHz
MEASURING TIME / UPDATE SETTINGS	50 msec (sliding window) / 20 msec
DIGITAL SIGNALS	4 or 8 inputs: dry or wet contact, 24/250 VDC, 110/150 VDC, 220/250 VDC; 0, 2 or 3 outputs: solid state relay, 300 VDC / 250 VAC, 100 mA; up to 32 expressions with 32 functions: AND, OR, CMP, TIMER, VALID
EVENT LOGGING	I/O history, event log
INTERFACES AND PROTOCOLS	1 or 2 × RS-485: IEC 60870-5-101, Modbus RTU
POWER SUPPLY	18...36 VDC, 40...160 VDC, 120...370 VDC / 100...265 VAC (45...55 Hz), 11 VA
OPERATING CONDITIONS AND DESIGN	-40...+70 °C / 75 × 100 × 110 mm (IP40), DIN-rail mounting

ORDERING INFORMATION

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- DI voltage
(220) – 220 V DC (110) – 110 V DC if not specified – 24 V DC
- Features
11 – three-phase, 4 × DI, 3 × DO 21 – three-phase, 8 × DI 51 – single-phase, 4 × DI, 2 × DO
- Interfaces
C1 – 1 × RS-485 C2 – 2 × RS-485
- Power supply
220 – 120-370 V DC, 100-265 V AC (50 Hz) 110 – 40...160 V DC 24 – 18...36 V DC
- Rated voltage
100 – 57.7 (100) V 400 – 230 (400) V 690 – 400 (690) V 0 – without measuring inputs voltage
- Rated current
1 – 1 A 5 – 5 A