125 years of innovation 1893 - 2018

CHAUVIN ARNOUX ENERGY

MEMO P200

POWER MONITOR

A clear view of your electrical network - immediately

From the standard electrical quantities to 0.5s electricity metering

RS485 modbus and management of 4 tariffs as standard features

Simplified inventory with 2 models covering all the applications

Measure up

MEMO P200 : SUITABLE FOR ALL APPLICATIONS

1 built-in RS485 modbus port: all the electrical measurements are transmitted to your supervision system in real time

3 lines for easy-to-read display of the three-phase network's behaviour

Total consumption displayed constantly

4 tariffs: clear display of the tariff currently applied

4 buttons for simplified navigation and quick configuration

Main specifications

Voltage inputs (AC)	
VT primary	100 V to 500 kV - VT secondary: 100 V to 480 V
Measurement range	5...120 % Un - 50/60 Hz (Un = 100/400 V)
Overvoltage	120 % from 400 V (permanent) - 1 kV (0.5 s)
Consumption	< 0.25 VA - Input impedance: 1 MΩ
Connection configurations	3P3W - 3P4W - 1P2W
Current input (AC)	
CT primary	1 A to 10,000 A - TC secondary: 1 A to 5 A
Measurement range	1 % In...120 % In (In = 5 A)
Transient overload	120 A (0,5 s) - Permanent overload 6 A
Consumption	< 0.1 VA
Measurement accuracy	
Active power and energy	Class 0.5s (IEC 62053-22 & IEC 61557-12)
Reactive power and energy	Class 2 (IEC 62053-23 & IEC 61557-12)
Apparent power	1 % (IEC 61557-12)
Voltage / current	0.5 (IEC 61557-12)
Auxiliary power supply	
MEMO P200 ref. P01330825	85...275 VAC - 120...380 VDC (< 2 W) - 50/60 Hz
MEMO P200 ref. P01330826	21...28 VDC (2 W)
RS485 output	
Protocol	Modbus RTU – Slave mode
Speed	2,400...38,400 bauds
On-off output	
Metering output	kWh / kVARh (IEC 62053-31)
Operating voltage	5...27 VDC
Max. current	27 mA
General specifications	
Dimensions (L x H x W)	96 x 96 x 55 mm
Weight	350 g
Connection	Up to 4 mm² (measurement inputs) 2.5 mm² (others)
Operating temperature	-25 °C to +55 °C (K55)
Altitude	Up to 2,000 m

Measurement functions

Measurement	4 quadrants
Energy values	Ea, Eq, Es (import, export, cumulated, partial)
Instantaneous values	V, U, I, THD-V, THD- I, F, Crest Factor, K Factor, PF, P, Q, S
Average max. values	I, P, Q, S
Tariff metering	4 tariffs with configurable tariff ranges (internal Real-Time Clock (RTC))
Relay outputs (on-off)	Pulse mode for active energy or reactive energy (adjustable weight)

To order

Model	Reference
MEMO P200 - 24 V_{DC} aux. power supply	P01330825
MEMO P200 - 230 V_{AC} aux. power supply	P01330826
DIN-rail mounting kit	P01330360

Related products

ELOG DATA LOGGER
For storing and transmitting the data from your MEMO P200

TCR / TCRO / TC Clip
For measuring currents from 40 to 5,000 A

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