

MULTIFUNCTIONAL AMMETER MEASURING NETWORK'S CURRENT OR DIFFERENTIALS FLUSH MOUNTING DIN 96 x 96

These could be used for measuring differential or residual currents (up to 4 simultaneously) with an external toroidal reducer or for measuring networks current (eventually also networks divided each other, up to 4 simultaneously) with external CT.



ELM-4
ELM-4-485
ELM 4-PF

ENVIRONMENTAL WORKING CHARACTERISTICS

Working T: $-5 \div +50^{\circ}\text{C}$
Storage T: $-15 \div +60^{\circ}\text{C}$
Humidity: $\leq 90\%$

STANDARDS/ REGULATION

Safety: 61010-1:2001
EMC: EN61000-6-2 / EN61000-6-4
CISPR22-EN55022

ELECTRICAL COMPATIBILITY CE

	ELM 4	ELM 4-485	ELM 4-PF
Mechanical characteristics	Flush mounting DIN 96 x 96 mm Depth 56 mm Panel cut out 92x92 mm Weight: 0,5 kg		
Auxiliary supply	110-230-400 Vca 50-60 Hz		
OPTION C1	20÷60 Vca/dc		
OPTION C2	90÷250 Vca/dc		
Protection degree	Frontal IP 52 Box IP 20 (IP65 with external cover)		
Current inputs	4 inputs 0,05÷5A rms from external toroidal reducer series CT-1		
OPTION 1 AΔ	4 inputs 0,01÷1A rms (from external toroidal reducer series CT-1..)		
OPTION 50 AΔ	4 inputs 0,05÷50A (from external toroidal reducer series CT-1)		
OPTION 5 AL	4 inputs 0,05÷5A (from external toroidal reducer series CT-1)		
OPTION 1 AL	4 inputs 0,01÷1 Arms (from external CT.../1A)		
OPTION T	Isolated inputs with internal CT		
Measured parameters	A1 A2 A3 AN AΔ1 AΔ2 AΔ3 AΔ4		
Measuring accuracy	Current: <0,5%		
Frequency measure	40 ÷ 100 Hz		
Serial outputs	-	1 RS485 Communication protocol MODBUS-RTU Baud rate 9600-19200 bps	1 RS485 Communication protocol PROFIBUS-DP Baud rate 93700 bps MAX
OPTION S	-	-	Communication protocol PROFIBUS-DP baud rate 2M bps MAX
Digital outputs	2 photomos 10÷300 Vcc/150 mA or 10÷250 Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500 m Sec.)	2 photomos 10÷300 Vcc/150 mA or 10÷250 Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500 m Sec.)	2 photomos 10÷300 Vcc/150 mA or 10÷250 Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500 m Sec.)
Analog outputs	-	3 outputs 0-20/4-20 mA completely programmable 16 bit definition (by external toroidal converter serial/analog Z3A0) *	-
OPTION Z3A0	-	-	-
Display	4 displays with 10 mm red LED (3 digit of 10 mm - 7 segments)		

* in this case serial output RS485 can not be used.