

MULTIFUNCTION MULTIMETERS FLUSH MOUNTING DIN 96 x 96 WITH REDUCED DEPTH



EMM-R3VA



EMM-R4h
EMM-R4hp
EMM-R4h-485

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

Energy: EN61036:1996

	EMM R3VA	EMM R4h	EMM R4hp	EMM R4h-485
Mechanical characteristics	Flush mounting DIN 96 x 96 mm Depth 56 mm Panel cut out 92x92 mm Weight: 0,5 kg			
Auxiliary supply	400 Vac L-L 50-60 Hz (directly from voltage inputs)			
OPTION C1	230 Vac L-L			
OPTION C2	110 Vac L-L			
Protection degree	Frontal IP 52 Box IP 20 (IP65 with external cover)			
Voltage inputs	3 inputs 500 V max (possible external VT ratio programmable 01÷400)			
Current inputs	3 inputs 0,05÷5A rms with external CT ratio programmable 1÷2000			
OPTION 1A	3 inputs 0,01÷1A rms			
OPTION T	Isolated inputs with internal TA (for use in M.V.)			
Measured parameters	V I-I, V I-n, A f h	V I-I, V I-n, A cosfi, f, °T, h W, Var, VA kWh, kVarh, KVAh	V I-I, V I-n, A cosfi, f, °T, h W, Var, VA kWh, kVarh, KVAh	V I-I, V I-n, A cosfi, f, °T, h W, Var, VA kWh, kVarh, KVAh
Measuring accuracy	Voltage: < 0.5%	Voltage: < 0.5%	Voltage: < 0.5%	Voltage: < 0.5%
CEI-EN61036	Current: < 0.5%	Current: < 0.5%	Current: < 0.5%	Current: < 0.5%
	-	Powers: < 1%	Powers: < 1%	Powers: < 1%
	-	Energies: < 1% series 2	Energies: < 1% series 2	Energies: < 1% series 2
Frequency measure	40 ÷ 100 Hz			
Serial outputs	-	-	-	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps
Digital outputs	-	-	2 photomos 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100÷500 m Sec.).	-
OPTION P	2 photomos 10÷300Vcc / 150 mA or 10÷250Vca/150 mA max for alarms	-	-	-
Analog outputs	-	-	-	3 outputs 0-20/4-20mA comple- tely programmable - defini- tion16 bit (by external serial/analog converter Z3A0) *
OPTION Z3A0	-	-	-	-
Display	3 display with 10 mm red LED (3 digit of 10 mm - 7 segments)	4 displays with 10 mm red LED (3 digit of 10 mm - 7 segments)		

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