

MULTIFUNCTION MULTIMETERS DIN RAIL 6 MODULES



EMM-D4h
EMM-D4hp
EMM-D4hp-485
EMM-D4hp-485-A
EMM-D4hp-ETH

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 D4h	EMM D4hp	EMM D4hp-485	EMM D4hp-485-A	EMM D4hp-ETH
Mechanical characteristics		DIN rail mounting 6 modules of 17,5 mm		Weight 0,5 kg	
Auxiliary supply		110-230-400 Vac 50-60 Hz			
OPTION C1		20 \div 60 Vac/dc			
OPTION C2		90 \div 250 Vac/dc			
Protection degree		IP 42 frontal IP 20 box			
Voltage inputs		3 inputs 500 V max (possible external VT ratio programmable 01 \div 400)			
Current inputs		3 inputs 0,05 \div 5A rms with external CT ratio programmable 1 \div 2000			
OPTION 1A		3 inputs 0,01 \div 1A rms			
OPTION T		Isolated inputs with internal CT (for use in M.V.)			
OPTION N		4 th inputs for measuring neutral current or residual current			
Measured parameters		VI-I, VI-n, A cos ϕ , f, $^{\circ}\text{T}$, h W, Var, VA kWh, kVarh, KVAh			
Measuring accuracy		Voltage: $< 0.5\%$ Current: $< 0.5\%$ Powers: $< 1\%$ Energies: $< 1\%$ series 2 CEI-EN61036			
Frequency measure		40 \div 100 Hz			
Serial outputs	-	-	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps	-
OPTION LON	-	-	Communication protocol LON-WORKS	Communication protocol LON-WORKS	-
Ethernet outputs	-	-	-	-	1 ethernet connector RJ45 Communication protocol MODBUS-TCP FTP / HTTP / SMTP / SNMP
Digital outputs	-	2 photomos 10 \div 300Vcc / 150 mA or 10 \div 250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100 \div 500msec.).	2 photomos 10 \div 300Vcc / 150 mA or 10 \div 250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100 \div 500msec.).	2 photomos 10 \div 300Vcc / 150 mA or 10 \div 250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100 \div 500msec.).	2 photomos 10 \div 300Vcc / 150 mA or 10 \div 250Vca/150 mA max for alarms or re-emission pulses (programmable time of pulse 100 \div 500msec.).
Digital inputs	-	1 optoisolated 90 \div 250Vca/cc for changing band of energy meters or status signalling	1 optoisolated 90 \div 250Vca/cc for changing band of energy meters or status signalling	1 optoisolated 90 \div 250Vca/cc for changing band of energy meters or status signalling	1 optoisolated 90 \div 250Vca/cc for changing band of energy meters or status signalling
OPTION	-				
Analogl outputs	-	-	-	1 output 0 \div 20 / 4 \div 20mA programmable definition10 bit	-
OPTION Z3A0	-	-	3 outputs 0-20/4-20mA completely programmable - definition16 bit (by external serial/analog converter Z3A0)*	3 outputs 0-20/4-20mA completely programmable - definition16 bit (by external serial/analog converter 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.