

## MULTIFUNCTION MULTIMETERS FLUSH MOUNTING DIN 72 x 72

### 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- $\mu$ 3VA

EMM  $\mu$ 4h  
EMM  $\mu$ 4hp  
EMM  $\mu$ 4h-485

	EMM $\mu$ 3VA	EMM $\mu$ 4h	EMM $\mu$ 4hp	EMM $\mu$ 4h-485
<b>Mechanical characteristics</b>	Flush mounting DIN 72 x 72 mm   Depth 80 mm   Panel cut out 68x68 mm   Weight: 0,5 kg			
<b>Auxiliary supply</b>	400 Vac L-L   50-60 Hz (directly from voltage inputs)			
OPTION C1	230 Vac L-L			
OPTION C2	110 Vac L-L			
<b>Protection degree</b>	Frontal IP 52   Box IP 20 (IP65 with external cover)			
<b>Voltage inputs</b>	3 inputs 500 V max (possible external VT ratio programmable 01÷400)			
<b>Current inputs</b>	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.)			
<b>Measured parameters</b>	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
<b>Measuring accuracy</b>	Voltage: < 0.5% Current: < 0.5%	Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energies: < 1% series 2	Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energies: < 1% series 2	Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energies: < 1% series 2
<b>Frequency measure</b>	40 ÷ 100 Hz			
<b>Serial outputs</b>	-	-	-	1Rs485 Communication protocol MODBUS-RTU baud rate 9600-19200 bps
<b>Digital outputs</b>	-	-	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			
<b>Analog outputs</b>	OPTION Z3AO	-	-	3 outputs 0-20/4-20mA completely programmable - definition 16 bit (by external serial/analog converter Z3AO) *
<b>Display</b>	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.