

ELECTRICAL MULTIFUNCTION ANALYSERS FLUSH MOUNTING DIN 144 x 144 - WIDE LCD DISPLAY

ENVIRONMENTAL WORKING CHARACTERISTICS

Working T: -5 ÷ +50°C
Storage T: -15 ÷ +60°C
Humidity: ≤90%

STANDARDS/ REGULATION

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

ELECTRICAL COMPATIBILITY CE

Energy: EN61036:1996



EMA-11

EMA-11 H

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Mechanical characteristics	Flush mounting DIN 144x144 mm Depth 66 mm Panel cut out 138x138 mm Weight 0,5 kg	
Auxiliary supply	85÷265 V 50-60 Hz / dc	
OPTION C1	20÷60 V 50-60 Hz / dc	
Protection degree	Frontal IP 52 Box IP 20	
voltage inputs	3 inputs 750 V max (programmable transformer ratio with external VT 0,01 ÷ 5000,00)	
Current inputs	3 isolated inputs (TA) 0,005÷5A rms (10A f.s.) with external CT ratio programmable 0,01÷5000	
OPTION 1A	0,001÷1 Arms TA ratio external programmable	
Measured parameters	V I-I V I-n A cosφi P.F. F °T W Var VA V I-I V I-n A cosφi P.F. F °T W Var VA +kWh -kWh + kVarh -kvarh + kVAh -kVAh +kWh -kWh + kVarh -kvarh + kVAh -kVAh THD (subdivided in 4 time bands of 10 programmable periods) THD HVL1 HVL2 HVL3 HA1 HA2 HA3	
Measuring accuracy	Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energies: <1% series 1 CEI-EN61036	
OPTION 0,5	Voltage: < 0.25% Current: < 0.25% Powers: < 0,5% Energies: < 0,5% series 1 CEI-EN62052-11 CEI-EN62053-22	
Frequency measure	30 ÷ 900 Hz 30 ÷ 900 Hz (harmonic analysis with fundamental 40÷70 Hz)	
Serial outputs	1 RS485/RS232 selectable Communication protocol ASCII o MODBUS-RTU selectable baud rate progr. 1200÷19200 bps	
OPTION S485/232	Additional 1RS485 o RS232 Communication protocol ASCII o MODBUS-RTU selectable baud rate progr.1200÷19200 bps (by plug-in card)	
OPTION PF	Communication protocol PROFIBUS-DP baud rate 93700 bps MAX (by external converter type EMI-5)	
OPTION PF/S	Communication protocol PROFIBUS-DP baud rate 2Mbps MAX (by external converter type EMI-5/S or plug-in card)	
Recording memory	Ram 128 kb	Ram 128 kb
OPTION MEM 1	Ram 1 Mb	Ram 1 Mb (by plug-in card)
Clock Calendar	Format: day/month/year Hour/min/sec precision: ± 1 min./month with 25°C	
Harmonic analysis	Up to 31st harmonic of voltage and current with numeric format	
Digital outputs	2 photomos 10-50 Vdc-500mA o 260 Vac -100 mA max	
OPTION 2DI + 2DO	2 additional outputs photomos 10-50Vdc/500mA o 260Vac/100mA max (by plug-in card)	
OPTION 4DO	4 additional outputs photomos 10-50Vdc/500mA o 260Vac/100mA max (by plug-in card)	
Digital inputs	2 passive optoisolated inputs (500V) for pulse counting and synchronisation	
OPTION 2DI+2DO	2 additional passive optoisolated inputs (500V) for pulse counting and synchronisation (by plug-in card)	
OPTION 6DI	6 additional passive optoisolated inputs (500V) for pulse counting and synchronisation (by plug-in card)	
Analog outputs OPT. 2AO	2 outputs 0-20 / 4-20 mA fully programmable 8 bit definition(by plug-in card)	
OPTION 4AO	4 outputs 0-20 / 4-20 mA fully programmable 8 bit definition(by plug-in card)	
OPTION Z3AO	3 outputs 0-20 / 4-20 mA fully programmable – 16 bit definition (by external serial/ analog al converter Z3AO)	
Display	Graphic back lighted LCD 128x128 d. 70x70 mm	