

ELECTRICAL MULTIFUNCTION ANALYSERS FLUSH MOUNTING DIN RAIL 9 MODULES

ENVIRONMENTAL WORKING CHARACTERISTICS

Working T: $-5 \div +50^{\circ}\text{C}$

Storage T: $-15 \div +60^{\circ}\text{C}$

Humidity: 90%

STANDARDS/ REGULATION

Safety: 61010-1:2001

EMC: EN61000-6-2 / EN61000-6-4

CISPR22-EN55022

ELECTRICAL COMPATIBILITY CE

Energy: EN62053-21

EN62053-23



	EMA D9	EMA D9 H
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)	
Current inputs	3 isolated inputs (TA) 0,005÷5A rms (10A f.s.) with external CT ratio programmable	
OPTION 1A	0,001÷1 Arms TA ratio external programmable	
Measured parameters	V I-I V I-n A cosfi P.F. F °T W Var VA +kWh -kWh + kVarh -Kvarh + kVAh -kVAh THD	V I-I V I-n A cosfi P.F. F °T W Var VA +kWh -kWh + kVarh -Kvarh + kVAh -kVAh (subdivisibili in 4 fasce orarie di 10 periodi programmabili) THD HVL1 HVL2 HVL3 HA1 HA2 HA3
Measuring accuracy	Voltage: < 0.5% Current: < 0.5% Powers: < 1% Energies: <1% class 1 EN62053-21 62053-23	
Frequency measure	30 ÷ 900 Hz	30 ÷ 900 Hz (harmonic analysis with fundamental 40÷70 Hz)
Serial outputs	1 RS485/RS232 configurabile Protocollo di comunicazione ASCII o MODBUS-RTU selezionabile baud rate progr. 1200÷19200 bps	
OPTION S485/232	1 RS485/RS232 configurabile Protocollo di comunicazione ASCII o MODBUS-RTU selezionabile baud rate progr. 1200÷19200 bps	
OPTION PF/S	Communication protocol PROFIBUS-DP baud rate 3 Mbps MAX (by external converter type EMI-5)	
OPTION ETH	Ethernet outpot RJ45 (MODBUS-TCP FTP HTTP SMTP SNMP) with plug-in card (by external converter type EMI-10L)	
Recording memory	Ram 128 kb	Ram 128 kb
OPTION MEM 1	Ram 1 Mb	Ram 1 Mb
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 10-50Vdc-500 mA o 260 Vac-100 mA max	
OPTION 2DO/R	2 Relay output (5A-250V resistive load)	
Digital inputs	2 optoisolated passive inputs (500 V) for pulse counting and synchronisation	
OPTION 4DI	4 additional passive optoisolated inputs (500V) for pulse counting and synchronisation	
Analog	3 outputs 0-20 / 4-20 mA fully programmable 16 bit definition(by external serial/ analog converter Z3A0)	
OPTION Z3A0	3 outputs 0-20 / 4-20 mA fully programmable 16 bit definition(by external serial/ analog converter Z3A0)	
Display	Alphanumeric LCD with 2 lines of 20 characters (every line)	