EMA

ELECTRICAL MULTIFUNCTION ANALYSERS
FLUSH MOUNTING DIN RAIL 9 MODULES

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-D9
EMA-D9 H

	EMA D9	EMA D9 H
Mechanical characteristics	Flush mounting DIN 144x144 mm I Depth 66 mm I Panel cut out 138x138 mm I Weight 0,5 kg	
Auxiliary supply	85÷265 V I 50-60 Hz / dc	
OPTION C1	20÷60 V I 50-60 Hz / dc	
Protection degree	Frontal IP 52 I 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 I cosfi P.F. F °T I W Var VA +kWh -kWh I + kVarh -Kvarh I + kVAh -kVAh THD	V I-I V I-n A I cosfi P.F. F °T I W Var VA +kWh -kWh I + kVarh -Kvarh I + kVAh -kVAh (subdivisibili in 4 fasce orarie di 10 periodi programmabili) THD I HVL1 HVL2 HVL3 HA1 HA2 HA3
Measuring accuracy	Voltage: < 0.5% I Current: < 0.5% I Powers: < 1% I Energies: <1% series 1 I CEI-EN61036	
Frequency measure	30 ÷ 900 Hz	30 ÷ 900 Hz (harmonic analysis with fundamental 40÷70 Hz)
Serial outputs	1 RS485/RS232 configurabile I Protocollo di comunicazione ASCII o MODBUS-RTU selezionabile I baud rate progr. 1200÷19200 bps	
OPTION S485/232	1 RS485/RS232 configurabile I Protocollo di comunicazione ASCII o MODBUS-RTU selezionabile I baud rate progr. 1200÷19200 bps	
OPTION PF	Communication protocol PROFIBUS-DP I baud rate 93700 bps MAX (by external converter type EMI-5)	
OPTION PF/S	Communication protocol PROFIBUS-DP I baud rate 2Mbps MAX (by external converter type EMI-5)	
Recording memory	Ram 128 kb	Ram 128 kb
OPTION MEM 1	Ram 1 Mb	Ram 1 Mb
Clock Calendar	Format: day/month/year I Hour/min/sec I 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 OPTION Z3AO	3 outputs 0-20 / 4-20 mA fully programmable I 16 bit definition(by external serial/ analog converter Z3AO)	
Display	Alphanumeric LCD with 2 lines of 20 characters (every line)	