

# EMA 90

## DIGITAL MEASURING INSTRUMENTS NETWORK ANALYZER

TECHNICAL CHARACTERISTICS		EMA 90
<b>AUXILIARY SUPPLY</b>		
Nominal voltage $U_s$		90 - 260 VAC/DC
Operating voltage range		$\pm 15\%$
Power consumption		5VA
Frequency		30 ÷ 500 Hz
<b>VOLTAGE INPUTS</b>		
Measurement range		10...600VAC L-L
Method of measuring		True RMS value
Measuring input impedance		2M $\Omega$
Method of connection		Single-phase, two-phase, three-phase orbanced three-phase system
<b>CURRENT INPUTS</b>		
Reference current		1A (option) or 5A
Measurement range		0,01...5A
Method of measuring		True RMS value
Overload capacity		10A by an external current transformer
Self-consumption		0,2VA
<b>ACCURACY</b>		
Measures	Voltage	$\pm 0,5\%$
	Current	$\pm 0,5\%$
	Power	$\pm 0,5\%$
	Frequency	$\pm 0,2\%$
	Active energy	Class 1
<b>INSULATION</b>		
Insulation voltage		3.7kVAC for 1 minute
<b>DISPLAY</b>		
Display type		Graphic LCD display
Format		128 x 128 pixel
Dimension		50 x 50 mm
<b>AMBIENT CONDITION</b>		
Operating temperature		-10...+50°C
Storage temperature		-15...+70°C
<b>HOUSING</b>		
Version		Flush mount 96 x 96 mm
Degree of protection		IP52 on front IP20 Housing and terminals
Weight		430g
<b>CERTIFICATIONS AND COMPLIANCE</b>		
Reference standards		EN 61010-1, EN62053-21, EN62053-22

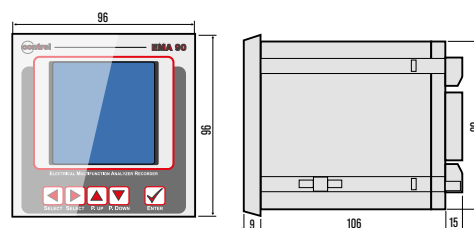
OPTIONS	
ORDER CODE	DESCRIPTION
C1	Auxiliary supply 20 ÷ 60 VCA/DC
1A	Rated current inputs by external CT 1A
0.5	Active energy 0.5
H	Detailed harmonic analysis (1...31°)
MEM1	1MB data memory
4DI	4 digital inputs
2DO	2 digital outputs
2DO/R	2 relays
1 AO	1 analog output



### WIRING DIAGRAMS EMA 90

See page 24

### MECHANICAL DIMENSIONS EMA 90



COMMUNICATION PORTS	
485	RS485 serial interface
ETH	Ethernet interface with Web server function
PF/S	Profibus-DP interface