Network Analyzers

MPR-1 Series

NEW



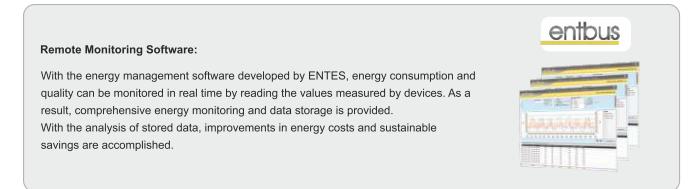
MPR-1 Series

MPR-1 Series Power Analyzer

MPR-1 Series DIN type power analyzers have been designed for the purpose of measurement of electrical parameters at machines and wall boxes. With its screen-free design it is a measurement device suitable for power monitoring software.

CE

PRODUCT SELECTION TABLE Product Code	Dimensions	% THD I	% THD V	Harmonics 1-51.	RS-485	Digital Input	Digital Output	Analog Output (mA/V)	Relay Output	Number of Samples In One Period	Memory	Current - Voltage Unbalances	X5/X1	85-300 VAC/DC
MPR-14-S	DIN4									128				
MPR-15S-22	DIN4					2	2			128	4 MB			
MPR-16S-21	DIN4			51		2			1	128	4 MB			
MPR-17S-23	DIN4	٠	٠	51	٠	2	2	1		128	4MB	٠	•	



* For more detailed information, see Page 84.

 $\mathscr{N}_{\mathcal{N}}$ Power Quality and Energy

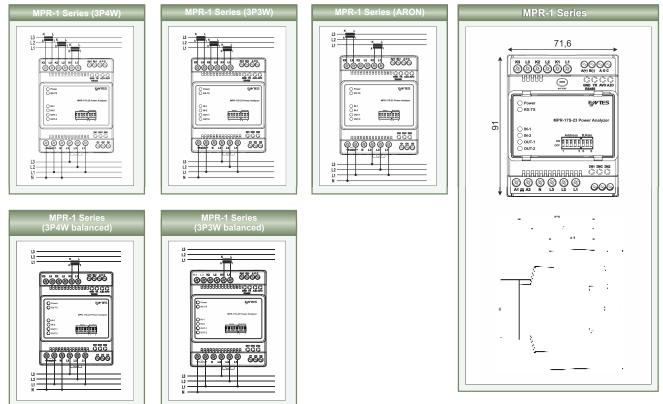
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Phase - Neutral Voltages (VI N)	Neutral Current (In)	Active Power (P)	Active Energy Import
Filase - Neutral Voltages (VLN)		Active Power (P)	(kWh or MWh)
Phase - Phase Voltages (V _{LL})	Total Current (□I)	Reactive Power (Q)	Active Energy Export (kWh or MWh)
Average Phase-Neutral Voltage	Power Factor (P.F)	Apparent Power (S)	Reactive Energy Capacitiv (kVArh or MVArh)
Average Phase-Phase Voltage	Cos□	Total Active Power (□P)	Reactive Energy Inductive (kVArh or MVArh)
Max. Demand	Demand Frequency (Hz)		Apparent Energy (kVAh or MVAh)
	Max. / Min. Values	Total Apparent Power (□S)	
Phase Currents (IL)		R-14S	
Phase Currents (IL)			
Phase Currents (IL)			
	MPI • Total Harmonic Distortion	R-14S	
	MP	R-14S	
	MPI	R-14S	
	MPI	R-14S Total Harmonic Distortion for Current (THD-I)	
	MPI Total Harmonic Distortion for Voltage (THD-V) MPR	R-14S Total Harmonic Distortion for Current (THD-I) -15S-22	vidual Current

Connection Diagram DIN4 - MPR-1 Series

Dimensions



Network Analyzers MPR-1 Series

SPECIFICATIONS

	MPR-14S	MPR-15S-22	MPR-16S-21	MPR-17S-23			
ENCLOSURE		BRITE	21 B.4				
Dimensions	DIN4 Rail Mounting						
Protection Class	Terminals = IP20, Enclosure Protection Class = Ip40						
MEASUREMENTS							
Voltage Measurement Range		40.400.1/40 (1.11) 10 600 \/AC (L L)				
Measurement Range with Transformer	10-400 VAC (L-N) 10 - 690 VAC (L-L)						
Accuracy	1-400.0kV Transformer Ratio: 1-5000 %0.5 ± 1 Digit						
Input Impedance			1MΩ				
Burden (Input Load)			,5 VA				
Current			,0				
Nominal Current		In :	5A / 1A				
Minimum Current		5	mA				
Measurement Range		50 mA - 5,5 A Acc	uracy : %0.5 ± 1 Digit				
Measurement Range with Transformer	50 mA -10000 A						
Burden	<1 VA						
Overload Current	1,2 In continuous						
Short Time Overload (1s)		1	0xIn				
Power/Energy							
Active Power			racy : %1 ± 1 Digit				
Reactive Power			racy : %1 ± 1 Digit				
Apparent Power			racy : %1 ± 1 Digit				
Power Factor		±1.00 Acc 0 - 99 999 999 kWh or MW	uracy : ± 0,02				
Active Energy		0 - 99 999 999 kVArh or MV					
Reactive Energy Total Harmonic Distortion (THD)		0 - 33 333 399 KVAIII OF WI					
Individual Harmonics	- 1		THD V%, THD I%	e (V) and Current (I)			
Demand Period	_	1051015	-				
Frequency			,20,30,60 min.				
Number of Samples In One Period			-65 Hz 128				
SUPPLY			120				
		9E 20	0 VAC/DC				
Supply Voltage							
Operating Frequency Power Consumption			(60 Hz				
		<	6 VA				
DIGITAL INPUT / OUTPUT							
Digital Input Pulse Width	-		20/500 ms				
Digital Input Operating Voltage	-		1248 VAC/DC				
Switching Current	-		Max 50mA				
Digital Output Supply Voltage	- 5-30 VDC (open collector)						
Pulse Duration	-	100	ms pulse period 80ms pulse widt	h			
Pulse Width	-		20-500 ms (Adjustable)				
ANALOG OUTPUT							
Current Output		_		0-20mA, 4-20mA, 4-24m			
Voltage Output		-		0-5V, 0-10V, ±5V, ±10V			
RELAY OUTPUT							
Relay Output	_		1 NO Contact, 250 VAC/5A				
	_						
Sensor Input Type			-				
Thermocouple Type			-				
MEMORY							
Internal Memory Size	-		4	MB			
COMMUNICATION							
Communication Interface/Protocol			10DBUS RTU				
Transfer Speed		2400	-115200				
AMBIENT CONDITIONS							
Operating Temperature		- 10	/ +55°C				
Storage Temperature		- 20	/ +70°C				
Overvoltage Category			III				
Pollution Degree			Ш				
Ambient Humidity			%95				
STANDARDS							
	FN	N 61557-12, EN 61326-1, EN 610	00-6-2, EN 61000-6-3, EN 610	00-6-4			
Standards			60068, EN 61010				
CONNECTIONS		,	-,				
Mounting			Mounting				
Connection Terminals			r Terminal				