

EMT 4s

DIGITAL MEASURING INSTRUMENTS MEASUREMENT TRANSDUCER

The EMT-4s is the transducer version of the EMS-96, for DIN-rail mount. This device has the same characteristics as the EMS-96, but has no color display. Instead of the integrated display, the EMT-4s has an interface board that consent the connection in one of the following modes:

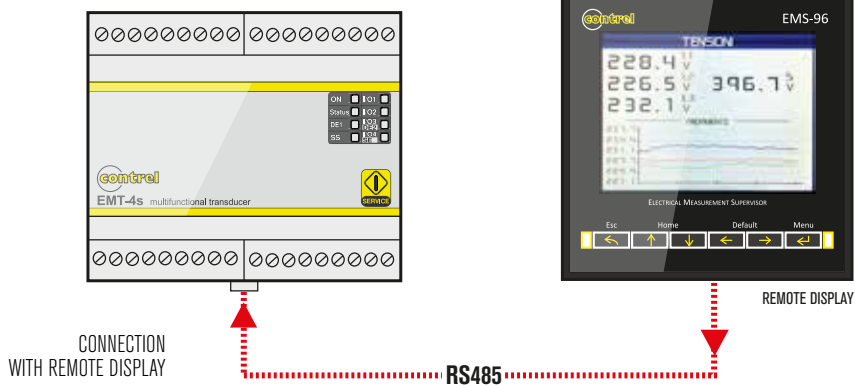
- RS485 communication port
- Remote display communication port



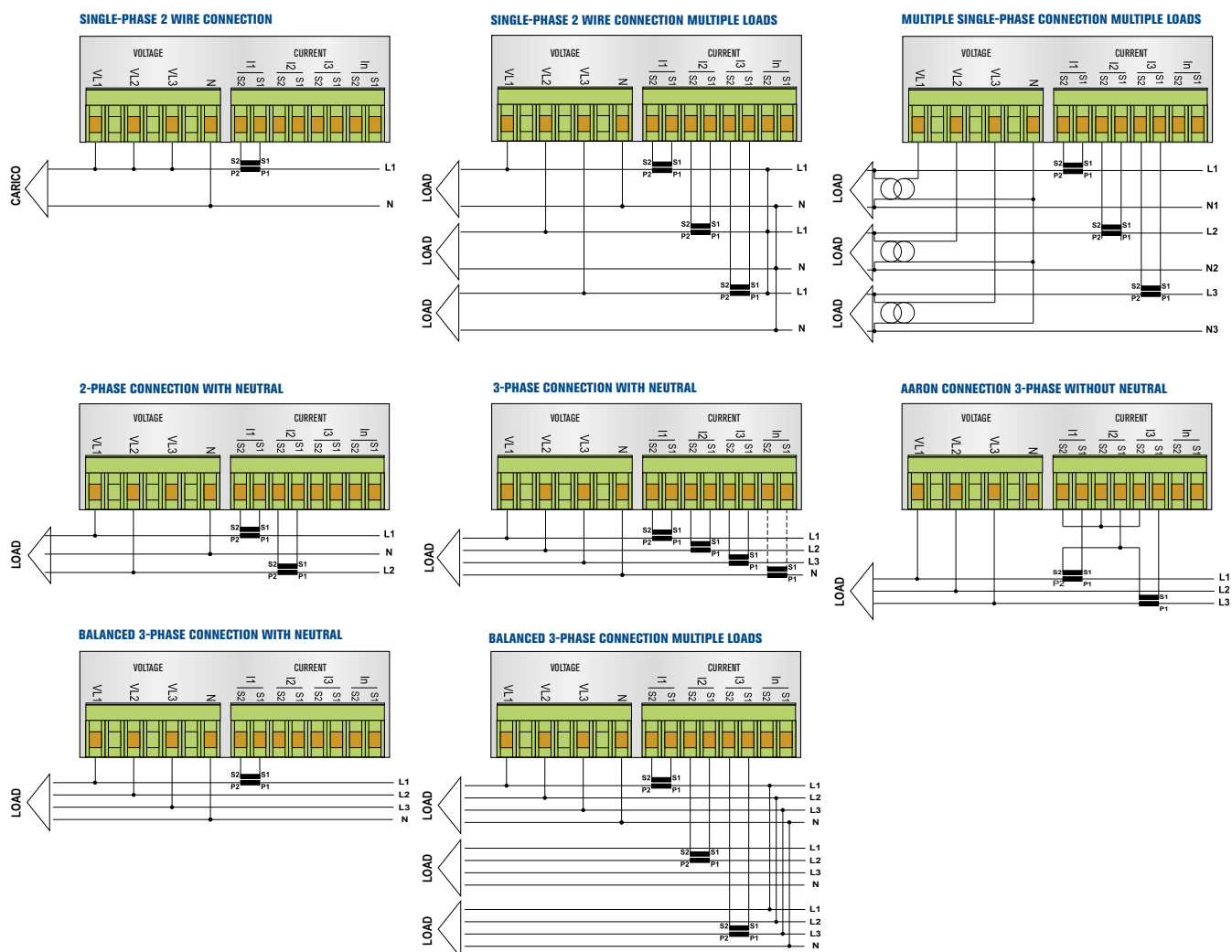
TECHNICAL CHARACTERISTICS		EMT-4s	
AUXILIARY SUPPLY			
Nominal voltage U_s		110 - 230 - 400 VAC	
Operating voltage range		$\pm 15\%$	
Power consumption		3VA	
Frequency		50 - 60 Hz	
VOLTAGE INPUTS			
Measurement range		52...693VAC L-L (30...400VAC L-N)	
Method of measuring		True RMS value	
Measuring input impedance		1,8M Ω	
Method of connection		Single-phase, two-phase, three-phase orbalanced three-phase system	
CURRENT INPUTS			
Reference current		1A (option), 30A (option) or 5A	
Measurement range		0,05...5A	
Method of measuring		True RMS value	
Overload capacity		6A by an external current transformer	
Self-consumption		<0,5VA	
ACCURACY			
Measures	Voltage	0,5%	
	Current	0,5%	
	Power	1 %	
	Frequency	0,5%	
	Active energy	Class 1	
RS485 SERIAL INTERFACE			
Baud-rate		Programmable 4800...38400 bps	
Protocol		Modbus RTU	
INSULATION			
Insulation voltage		3kVAC for 1 minute	
AMBIENT CONDITION			
Operating temperature		-5...+50°C	
Storage temperature		-15...+60°C	
HOUSING			
Version		6 modules	
Degree of protection		IP52 on front IP20 Housing and terminals	
Weight		430g	
CERTIFICATIONS AND COMPLIANCE			
Reference standards		EN61000-6-2, EN61000-6-4, CISPR22-EN55022, EN62053-21, EN62053-22, EN62053-23	
OPTIONS			
ORDER CODE		DESCRIPTION	
1A		Rated current inputs by external CT 1A	
TT - TTA		Current inputs by miniaturized closed CT (TT) or openable CT (TTA)	
N		Neutral current input or differential current input	
0.5 s		Active energy Class 0.5s	
0.2 s		Active energy Class 0.2s	
4DI		4 digital inputs	
4DO		4 digital outputs	
COMMUNICATION PORTS			
485		RS485 serial interface	
485M		RS485 serial interface (Master function)	

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WIRING DIAGRAMS EMT-4s



MECHANICAL DIMENSIONS EMT-4s

