

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:

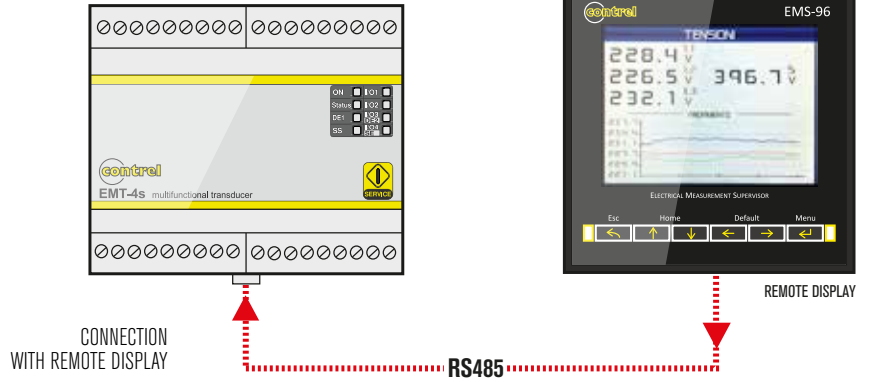
- RS485 communication port
- Remote display communication port



TECHNICAL CHARACTERISTICS		EMT-4s
AUXILIARY SUPPLY		
Nominal voltage Us		110 - 230 - 400 VAC
Operating voltage range		±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		1,8MΩ
Method of connection		Single-phase, two-phase, three-phase or balanced 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)	

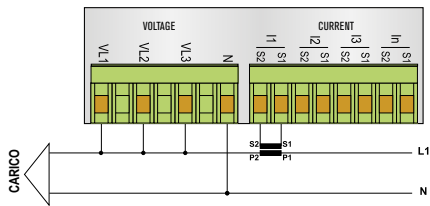
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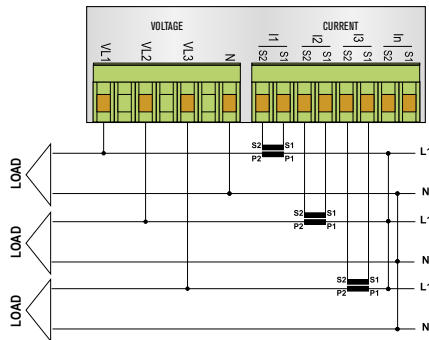


WIRING DIAGRAMS EMT-4s

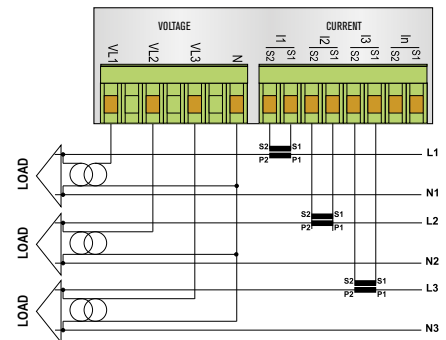
SINGLE-PHASE 2 WIRE CONNECTION



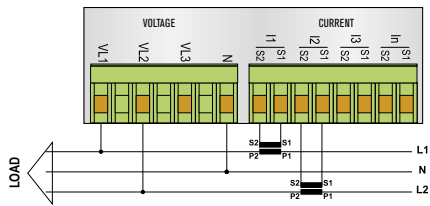
SINGLE-PHASE 2 WIRE CONNECTION MULTIPLE LOADS



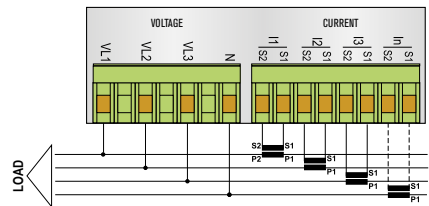
MULTIPLE SINGLE-PHASE CONNECTION MULTIPLE LOADS



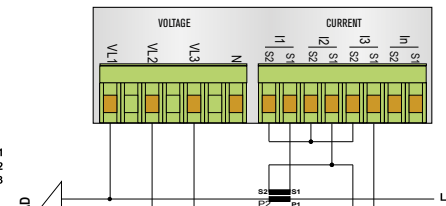
2-PHASE CONNECTION WITH NEUTRAL



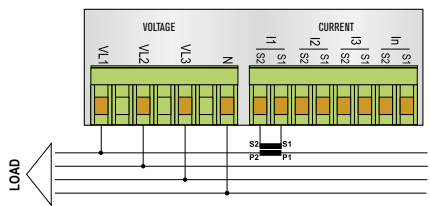
3-PHASE CONNECTION WITH NEUTRAL



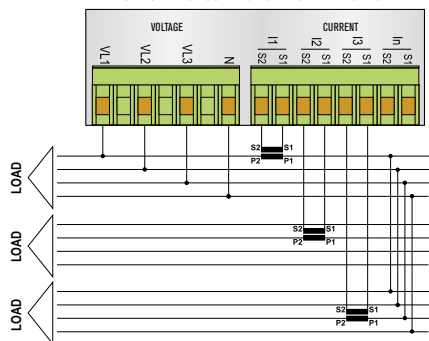
AARON CONNECTION 3-PHASE WITHOUT NEUTRAL



BALANCED 3-PHASE CONNECTION WITH NEUTRAL



BALANCED 3-PHASE CONNECTION MULTIPLE LOADS



MECHANICAL DIMENSIONS EMT-4s

