

EMM D4h | μ D3h

DIGITAL MEASURING INSTRUMENTS

**MODULAR LED
MULTIMETERS**



TECHNICAL CHARACTERISTICS		EMM-D4h	EMM- μ D3h
AUXILIARY SUPPLY			
Nominal voltage Us		110 - 230 - 400 VAC	230VAC
Operating voltage range		$\pm 15\%$	$\pm 15\%$
Power consumption		4VA	4VA
Frequency		50 - 60 Hz	50 - 60 Hz
VOLTAGE INPUTS			
Measurement range		20...500VAC L-L (20...290VAC L-N)	20...500VAC L-L (20...290VAC L-N)
Method of measuring		True RMS value	True RMS value
Measuring input impedance		1M Ω	1M Ω
Method of connection		Single-phase, two-phase, three-phase or balanced three-phase system	Single-phase, two-phase, three-phase or balanced three-phase system
CURRENT INPUTS			
Reference current		1A (option) or 5A	1A (option) or 5A
Measurement range		0,02...5A	0,02...5A
Method of measuring		True RMS value	True RMS value
Overload capacity		+30% by an external current transformer	+30% by an external current transformer
Self-consumption		< 0,5VA	< 0,5VA
ACCURACY			
Measures	Voltage	0,5%	0,5%
	Current	0,5%	0,5%
	Power	1 %	1 %
	Frequency	0,5%	0,5%
	Active energy	Class 1	Class 1
INSULATION			
Insulation voltage		3kVAC for 1 minute	3kVAC for 1 minute
AMBIENT CONDITION			
Operating temperature		-10...+60°C	-10...+60°C
Storage temperature		-25...+80°C	-25...+80°C
HOUSING			
Version		6 modules	3 modules
Degree of protection		IP52 on front IP20 Housing and terminals	IP52 on front IP20 Housing and terminals
Weight		500g	300g
CERTIFICATIONS AND COMPLIANCE			
Reference standards		IEC/EN 50081-2, IEC/EN 61000-6-2, IEC/EN 61010-1, IEC/EN 61036-1	
OPTIONS			
ORDER CODE	DESCRIPTION		
C1	Auxiliary supply 20÷60 VAC/DC (version EMM-D4h) - Auxiliary supply 400 VAC (versions EMM- μ D3h)		
C2	Auxiliary supply 90÷250 VAC/DC (version EMM-D4h) - Auxiliary supply 110 VAC (versions EMM- μ D3h)		
1A	Rated current inputs by external CT 1A		
T	Internal current inputs, galvanically insulated (version EMM-D4h)		
TT - TTA	Current inputs by miniaturized closed CT (TT) or openable CT (TTA)		
N	Neutral current input or differential current input (version EMM-D4h)		

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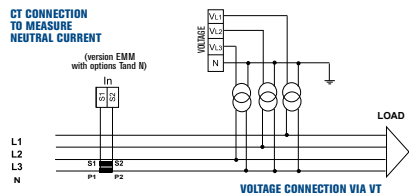
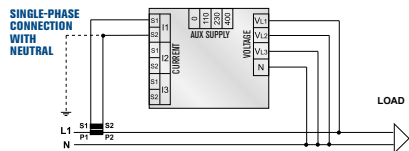
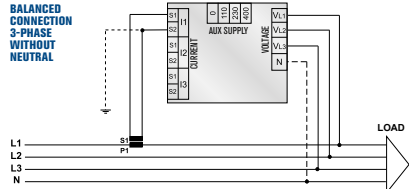
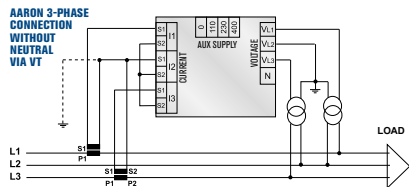
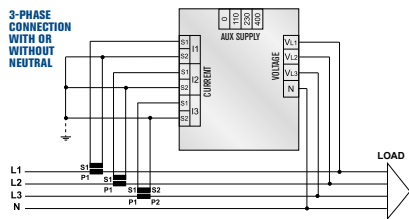
OPTIONS

ORDER CODE	DESCRIPTION
M	Import/Export energy counters
P	2 digital outputs
DI	1 digital inputs (version EMM-D4h)
A	1 analog output (version EMM-D4h)

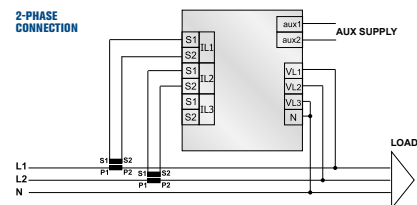
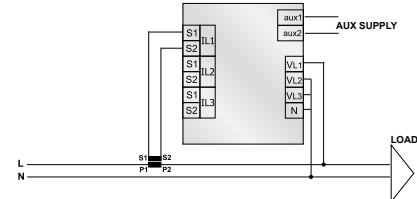
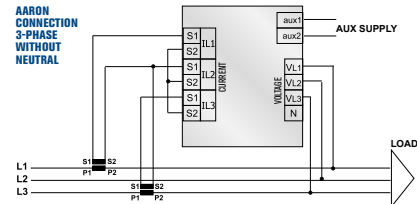
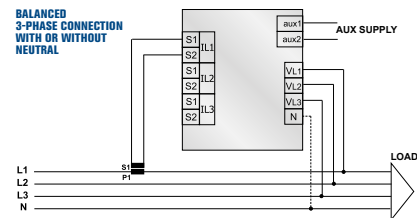
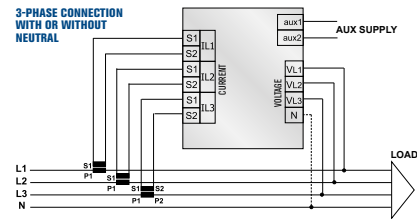
COMMUNICATION PORTS

485	RS485 serial interface
ETH	1 digital inputs (version EMM-D4h)
LON	1 analog output (version EMM-D4h)

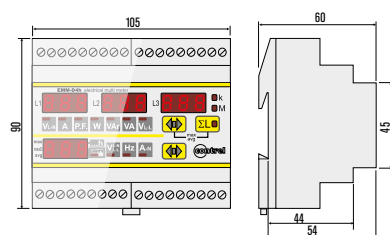
WIRING DIAGRAMS EMM-D4h



WIRING DIAGRAMS EMM- μ D3h



MECHANICAL DIMENSIONS EMM-D4h



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