Three phase power-meter

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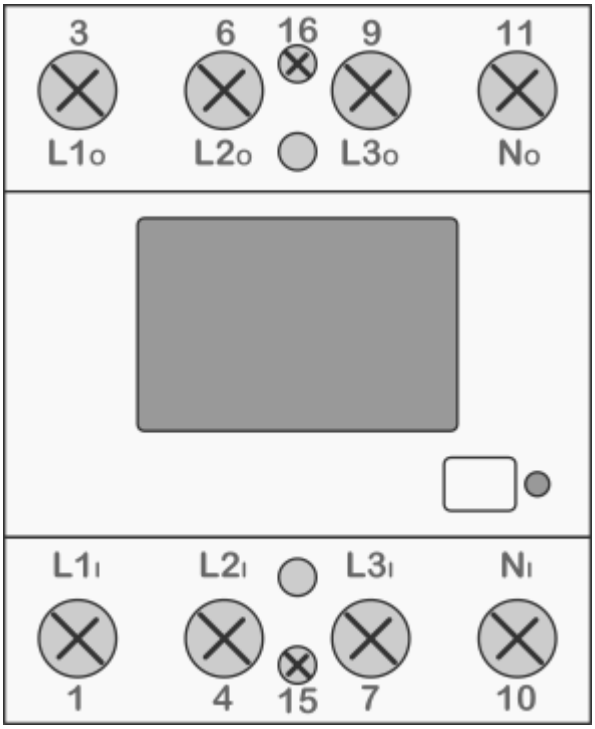


Model number:	**PM3-I-D**
Mounting:	DIN rail, 3M, 53 mm
Dimensions:	53 × 84 × 66 mm

Used for measuring power and energy of	
✔	three-phase energy sources
✔	three-phase energy consumers

Applications

- Digital multi-function energy meter for 3-phase sources or consumers

Features

- Three phase direct connection up to 65 A
- Serial RS485 communication
- Display LCD 7+1 digit
- Multi-functional front LED

General description

The PM-3-IQ is intended for energy measurements in three-phase electrical power network and can be used in residential, industrial and utility applications. Meter measures energy directly in 4-wire networks according to the principle of fast sampling of voltage and current signals.

Connecting terminals can be sealed up against non-authorized access with protection covers. They are built to be fastened according to EN 60715 standard. Meter has built-in RS485 serial communication with the MOD-BUS protocol which enables data transmission and thus connection of

the measuring places into the network for the control and management with energy.

Technical specifications

Nominal voltage	3×230/400 VAC (-20..+15%)
Power connector	1,5 .. 16 mm^2
Reference current	5 A
Maximum current	65 A
Operational frequency range	50 or 60 Hz
Internal power consumption	< 8 VA
Communication type	RS485(half-duplex)
Communication protocol	Modbus RTU
Accuracy	
Active energy (Wh)	Class 1 IEC 62053-21
	class B EN 50470-3
	±1.5% from Imin to Itr
	±1% from Itr to Imax
Ambient conditions and Safety	
Dust/water protection	IP50
Operating temp. range	-25 ... 55°C
Indoor meter	yes
Protection class	II
EC Directives conformity	
EC Directive on Measuring Instruments 2014/32/EU	
EC Directive on EMC 2014/30/EU	
EC Directive on Low Voltage 2014/35/EU	
EC Directive WEEE 2002/96/EC	

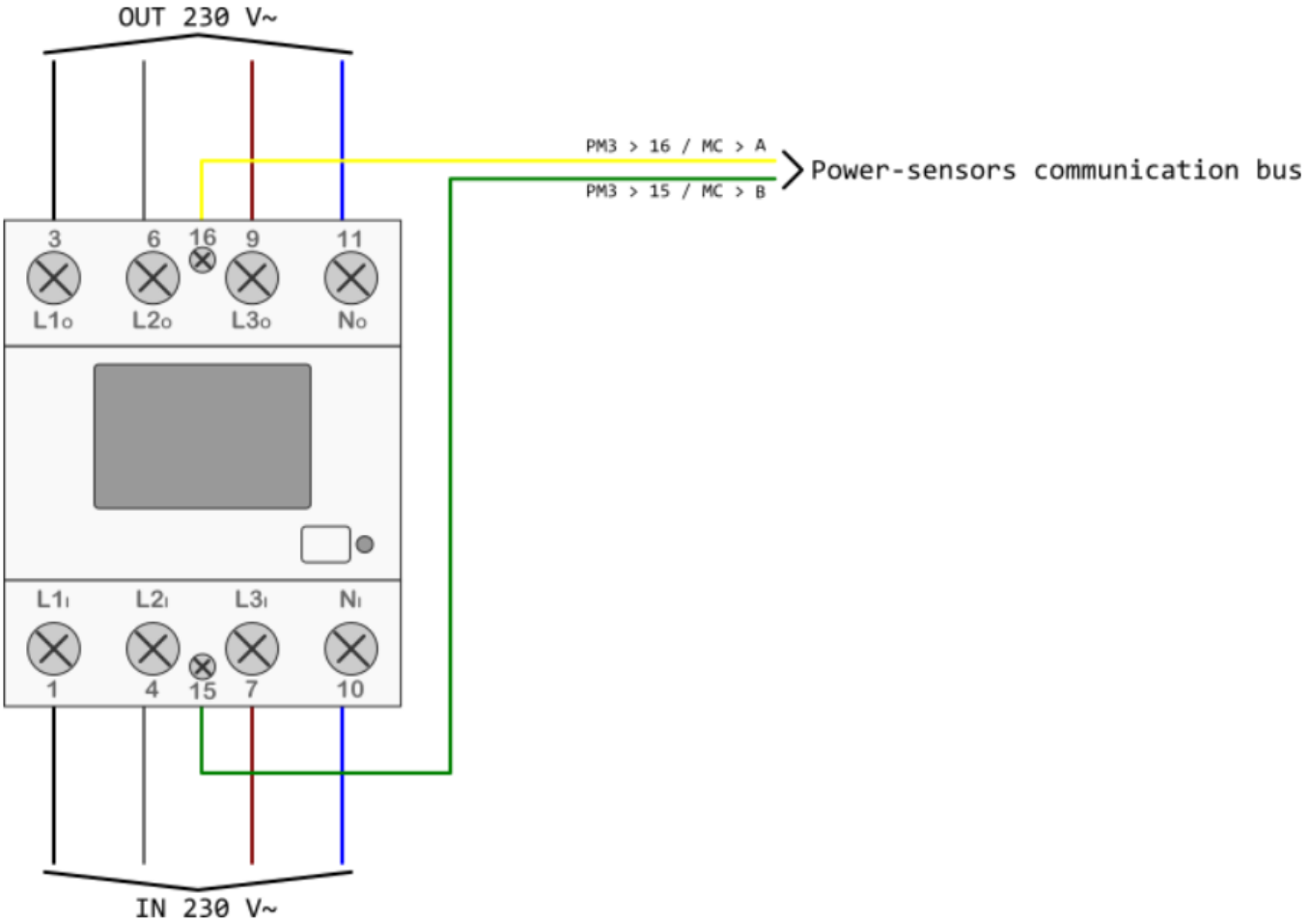
Terminals

PM3-I-D			**Power source**
Phase 1 IN	L1↑	1	L1
Phase 2 IN	L2↑	4	L2
Phase 3 IN	L3↑	7	L3
Neutral	N	10	N

PM3-I-D			**Power consumer**
Phase 1 OUT	L1↑	3	L1
Phase 2 OUT	L2↑	6	L2
Phase 3 OUT	L3↑	9	L3
Neutral	N	11	N

PM3-I-D		**CAD-232-A2-IQ**	**BR-WN-W**
RS485	16	A	Rx/T+
	15	B	Tx/T-

Connection



Manual

PM3-I-D Technical Documentation

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