

QUICK2FIT MD1 SINGLE CHANNEL DIN METER

Main Features

- Reduced installation time with simple plug in connectors
- 300mV Input from Quick2Fit CTs (or -/5A CT input with TAS-SCTEWA5A module)
- 4 module DIN-rail mounted
- High definition white backlit LCD screen
- Energy pulse LED
- True RMS measurement
- Single phase or three phase network compatible
- Pulsed output and Modbus as standard
- Programmable voltage and CT ratio
- Simple programming and operation
- Voltage out connector for daisy chaining up to 32 meters from one supply

CATALOGUE NUMBER

Quick2Fit DIN rail single channel MF meter c/w Pulse & Modbus **MD1**



Technical data


GENERAL

Wiring input	3Ø - 4 wire / 1Ø - 2 wire
Rated input voltage	60 - 300V AC (L-N); 104 - 520V AC (L-L)
Frequency range	45 - 65Hz
CT primary	5A - 10,000A
CT secondary	330mV
PT primary	100V - 10kV
PT secondary	100 - 500V AC (L-L)
Auxiliary	Self supplied
Voltage rated burden	<6VA (L1 - supply), <0.2VA (L2 & L3)
Operating temperature	-10...+55°C
Storage temperature	-20...+70 °C
Humidity	0...85% non-condensing
Weight	200g
Pulse output	5-24V DC / Vmax= 27V DC / Imax = 100mA
Installation category	III

ACCURACY

Voltage V L-N	± 0.5% of full scale
Voltage V L-L	± 0.5% of full scale
Current	± 0.5% of full scale
Frequency	± 0.1% (L-N >20V / L-L >35V)
Active power	± 1% of full scale
Reactive power	± 1% of full scale
Apparent power	± 1% of full scale
Active energy	Class 1 (IEC/EN62053-21)
Reactive energy	Class 2 (IEC/EN62053-22)
MAX / MIN (Active power/	
Reactive power/Apparent power)	± 1% of full scale
Power factor	± 0.01
THD	3%

RESOLUTION

PT Ratio x CT Ratio	kWh	
< 15	0.01k	0.001k
< 150	0.1k	0.01k
< 1500	1k	0.1k
< 15000	0.01M	1k
≥ 150000	0.1M	0.01M

1. V / A / W / VA /VAr = auto (1/k/M)
2. PF = 0.01

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SERIAL COMMUNICATION

Standard & Protocol	RS485 & Modbus RTU
Communication address	1 to 255
Transmission mode	Half duplex
Data types	Float & Integer
Transmission distance	500m (max)
Transmission speed	300,600, 1200, 2400, 4800, 9600, 19200 bps
Parity	None, Odd, Even
Stop bits	1 or 2
Response time	100mS (Max and independent of baud rate)

Modbus Register Addresses List available for download at www.dormansmithswitchgear.com, alternatively contact Customer service.

