

### Technical Data Sheet

Document Ref: QAP050 Version No: V3

Date: 29/1/21 Owned by: Paul Marland

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## 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  $3\emptyset - 4$  wire  $/ 1\emptyset - 2$  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** 

 $\begin{array}{lll} \mbox{Voltage V L-N} & \pm 0.5\% \mbox{ of full scale} \\ \mbox{Voltage V L-L} & \pm 0.5\% \mbox{ of full scale} \\ \mbox{Current} & \pm 0.5\% \mbox{ of full scale} \\ \end{array}$ 

Frequency  $\pm 0.1\%$  (L-N >20V / L-L >35V)

Active power ± 1% of full scale
Reactive power ± 1% of full scale
Apparent power ± 1% of full scale
4 ctive energy Class 1 (IEC/FN620

Active energy Class 1 (IEC/EN62053-21)
Reactive energy Class 2 (IEC/EN62053-22)

MAX / MIN (Active power/

Reactive power/Apparent power)  $\pm$  1% of full scale

Power factor  $\pm 0.01$  THD 3%

#### **RESOLUTION**

PT Ratio x CT Ratio	kWh	7
< 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)

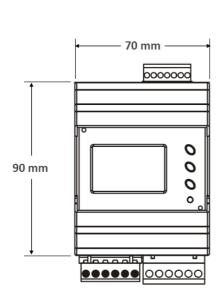
Transmission speed 300,600, 1200, 2400, 4800, 9600, 19200 bps

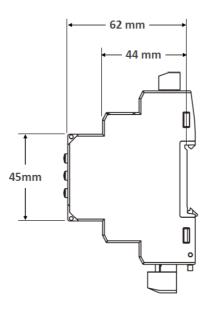
Parity None, Odd, Even

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.







Tel: +44 (0) 844 225 1063 Email: <u>sales@dormansmith.co.uk</u>

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