

APM POWER METER



MEASURING AND TE EQUIPMENT E469787

Before installation, read the Safety Warnings overleaf.

CAUTION: Risk of Danger

Read complete instructions prior to installation and operation of the unit

CAUTION: Risk of electric shock

Operating Specification

Intended Use: The APM has been specifically designed for engineers requiring an effective way to monitor and display data. The APM accepts a range of electrical inputs (depending on the model) and displays the data on its integrated multi-format display. The APM has been designed for industrial use only, by installation into electrical cabinets or display panels.

L-L: 10 - 600VAC
L-N: 10 - 300VAC
0–5A (CT only)
0-999,999MW
Dependant on CT ratio
45 – 65 Hz
full scale
1%
1%
1%
5%
1%

Environment Temperature - operating Temperature - storage Altitude Relative Humidity (non-condensing) - Continuous Relative Humidity (non-condensing) - Intermittent Overvoltage category (IEC664) Pollution Degree (IEC664)	VALUE -10 to +50°C -40 to +70°C 2000 metres
Environment Temperature - operating Temperature - storage Altitude Relative Humidity (non-condensing) - Continuous Relative Humidity (non-condensing) - Intermittent Overvoltage category (IEC664) Pollution Degree (IEC664)	-10 to +50°C -40 to +70°C 2000 metres
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Relative Humidity (non-condensing) - Continuous Relative Humidity (non-condensing) - Intermittent Overvoltage category (IEC664) Pollution Degree (IEC664)	0 05 0/
Relative Humidity (non-condensing) - Intermittent Overvoltage category (IEC664) Pollution Degree (IEC664)	0 - 85 %
Overvoltage category (IEC664) Pollution Degree (IEC664)	0 – 95 %
Pollution Degree (IEC664)	11
	2
IP rating (from the front)	IP65
NEMA Rating (from the front)	Type 4 & Type 12
Vibration	
Shock	
Power supply	
Input	100-277VAC
Max Power	2W
Supply Frequency	50-60Hz
Isolation	Reinforced
Display	
Number of digits	4 x 3
Digit height	7.5 mm
Number of bar-graph segments	20 per phase
Number of starburst message characters	6
Backlight colours	Red, Green, White
LCD	Positive or Negative
Digit update frequency	500ms
Bar-graph update frequency	500ms
Viewing angle	+/-70° Horizontal +/-70° Vertical
Open Collector Sinking Outputs	
Max voltage (open collector outputs)	24 VDC
Max current (open collector outputs)	15 mA
Analogue Output	
Output	4-20 mA
Accuracy	0.50 %
Resolution	0.02 mA
Connections	
Туре	Screw Terminals
Wire type	Copper (Solid or Stranded)
Min. cable temperature rating	65°C (149°F)
Wire strip length	6.5mm to 7mm (0.26" to 0.28")
Wire gauge	0.8mm ² - 3.3mm ² (18AWG to 12AWG)
Torque	0.5-0.6Nm (4.42-5.31 lbf-in)
In the Box	
APM	
Getting started & safety guide	
Gasket	
Retaining clip	
Dimensions & Weight:	
Panel Cut-out: 68 x 68 mm (2.68 in) +0.7 -0 mm (0.02 in). Max. panel thickness: 10 mm.	
Dimensions: Depth behind panel inside front: 55mm	

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Wiring Diagrams

GND

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DIGITAL OUTPUT CONNECTIONS





GND



SINGLE PHASE POWER METER CONNECTIONS - LINE POWER





ANALOG OUTPUT CONNECTIONS







SINGLE PHASE POWER METER CONNECTIONS - LOCAL POWER



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Wiring Diagrams



THREE PHASE AND NEUTRAL POWER METER CONNECTIONS - LINE POWER

THREE PHASE (NO NEUTRAL) POWER METER CONNECTIONS - LOCAL



THREE PHASE POWER METER CONNECTIONS with PT AND CT - LOCAL



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L1 **JIddns**

L3



 Take great care connecting the supply. If you connect power to the wrong terminals, it may destroy the unit.



You need the software to configure the setpoints and outputs.

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