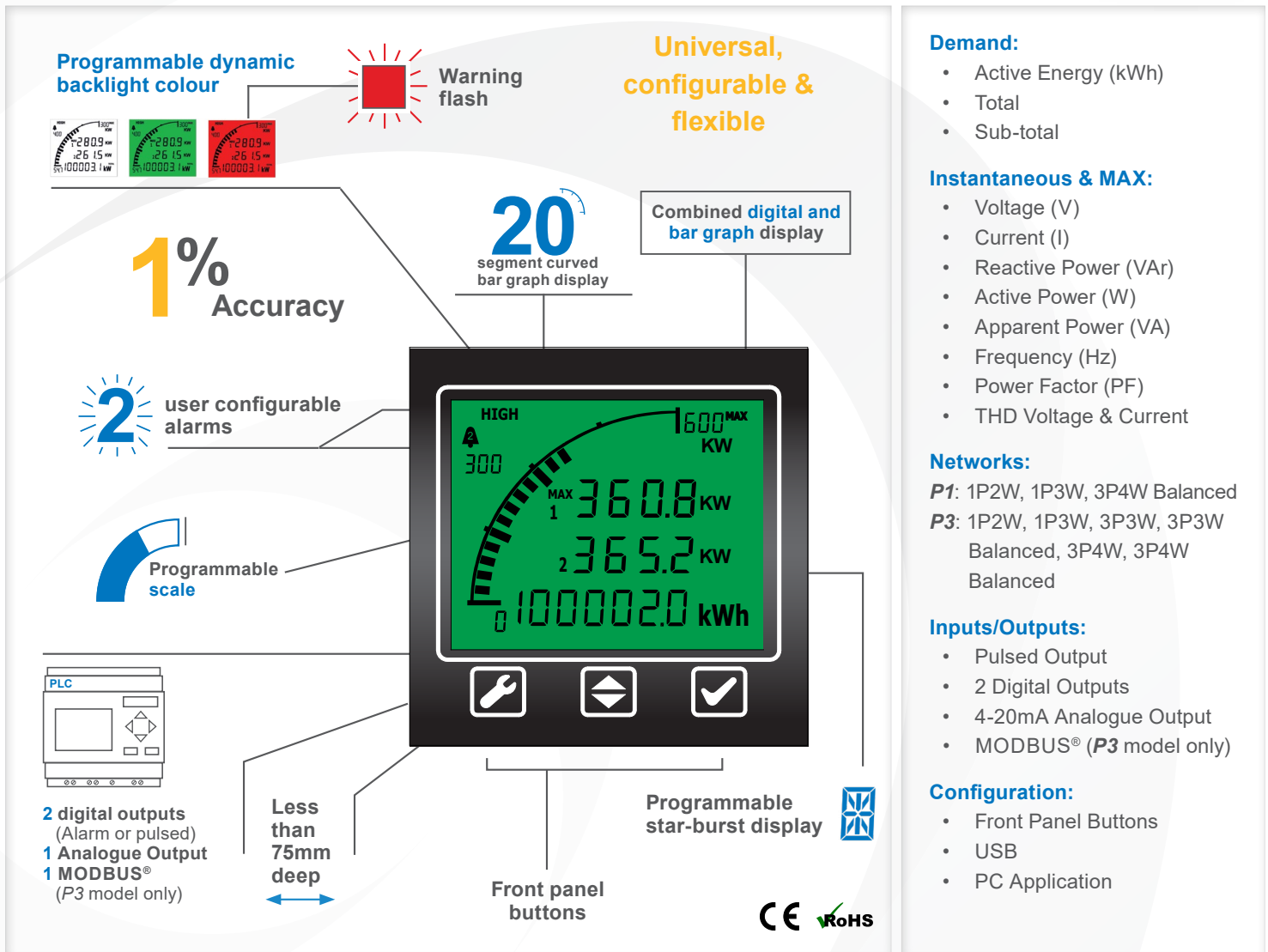




Power Meters

For single-phase, split-phase & 3-phase mains networks

Advanced Panel Meter (APM) Models P1 and P3



Key Features

- **P1** model for single-phase and split-phase; **P3** model for single-, split- and 3-phase applications
- Measures active and reactive power
- Displays electrical parameters on large, backlit LCD display
- Features two independent digital outputs, one analogue 4-20mA output
- **P3** model includes MODBUS® RTU communication
- Provides clear indication of electrical circuit performance
- Digital and bar-graph combo screen simultaneously displays up to 4 electrical parameters
- User-programmable scale and custom annunciators display critical parameters and immediately alert operators when a parameter is out of range

Specifications

P1 POWER METER

P3 POWER METER

NETWORK

1P2W	✓	✓
1P3W	✓	✓
3P3W	✗	✓
3P3W Balanced	✗	✓
3P4W	✗	✓
3P4W Balanced	✓	✓

MEASUREMENT

Voltage Measurement Range	L-L 10 - 600VAC L-N 10 - 300VAC	L-L 10 - 600VAC L-N 10 - 300VAC
Current Measurement Range	0 - 1000A via 5A CT	0 - 1000A via 5A CT
Accuracy	1% (THD 5 %)	1% (THD 5 %)
Display modes	Instantaneous or maximum	Instantaneous or maximum

ENVIRONMENTAL

Temperature - operating	-10 to +60°C	-10 to +60°C
Temperature - storage	-40 to +70°C	-40 to +70°C
IP rating (from the front)	IP65, NEMA type 4 and NEMA type 12	IP65, NEMA type 4 and NEMA type 12

POWER SUPPLY

Input	90-264 VAC	90-264 VAC
Supply frequency	50-60Hz	50-60Hz
Max power	3W	3W

DISPLAY

User Configurable Backlight Colours	Red, Green, White	Red, Green, White
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DIGITAL OUTPUTS

Number	2	2
Type	Open Collector	Open Collector
Operating modes	Momentary, Latched or pulsed	Momentary, Latched or pulsed
Max voltage	24VDC	24VDC
Max sink current	15mA	15mA

ANALOGUE OUTPUTS

Number	1	1
Analogue output	4-20mA	4-20mA

COMMUNICATION

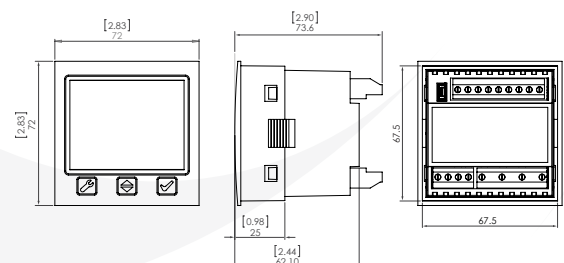
MODBUS® RTU	✗	✓
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CERTIFICATION

	CE, RoHS	CE, RoHS
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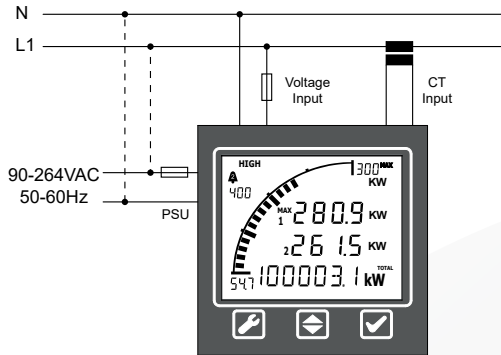
MECHANICAL

Dimensions	72mm x 72mm x 74mm [2.83" x 2.83" x 2.90"]
Cutout	68mm x 68mm [2.68" x 2.63"]
Connection Type	Screw Terminals
Wire Gauge	0.8mm ² - 3.3mm ² (18AWG to 12AWG)
Weight	205 grams

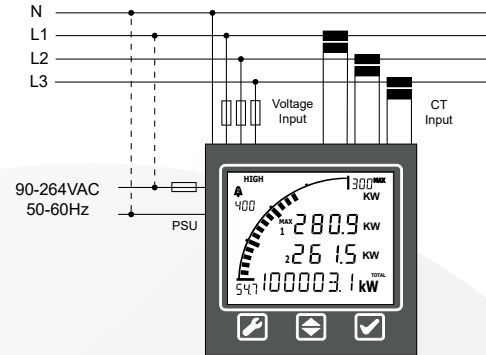


Wiring Diagrams and Isolation

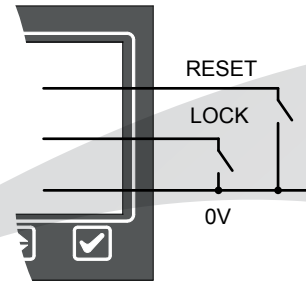
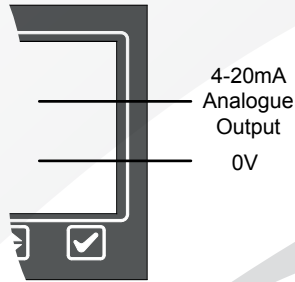
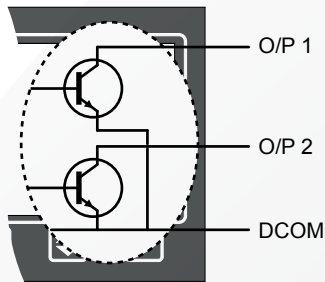
Single phase 2-wire (1P2W)



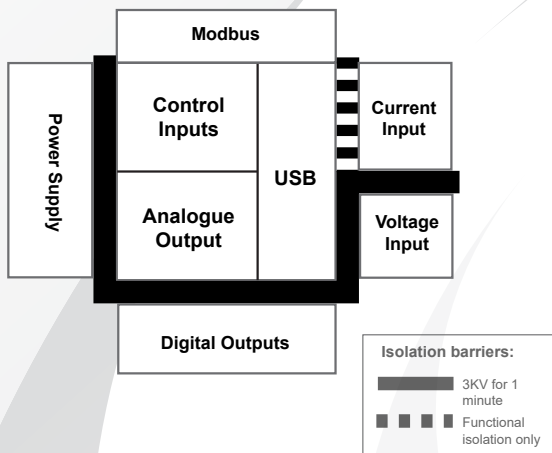
3 phase 3-wire (3P3W) (P3 Model only)



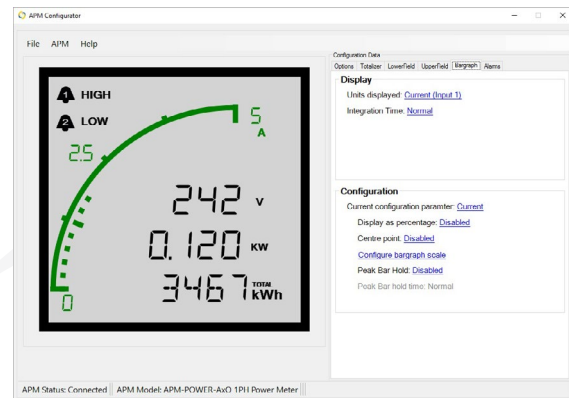
Control outputs & inputs



Isolation



PC Application



Part Numbers

APM-P1-APO

APM P1 Power Meter, Postive LCD

APM-P3-APO

APM P3 Power Meter, Postive LCD

Full specifications available online www.trumeter.com/apm

