trumeter
innovation by design



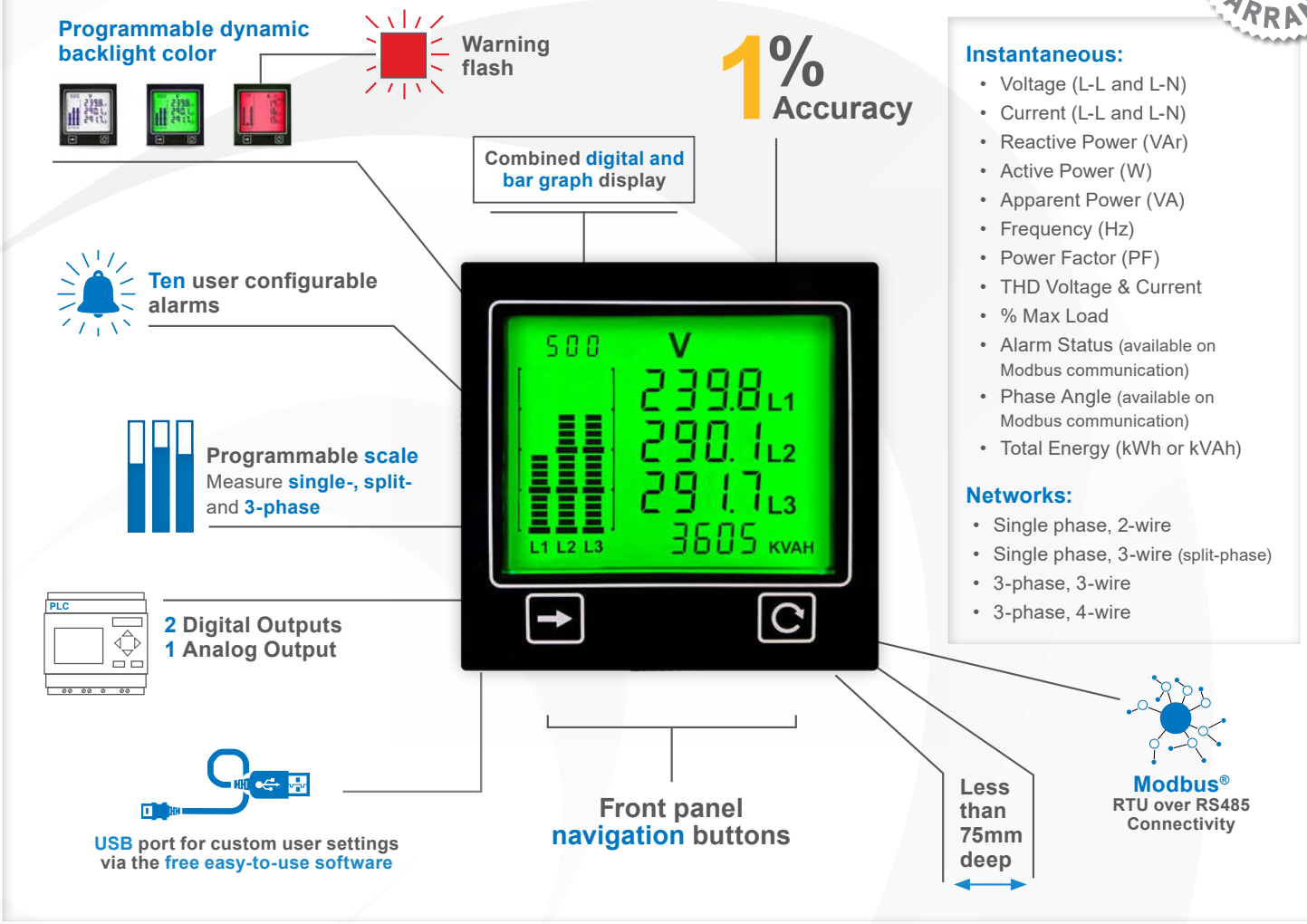
APM Power Meter

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

EVALUATION KIT AVAILABLE
Contact us to request yours

THREE YEAR 3 WARRANTY

Advanced Panel Meter (APM)



Instantaneous:

- Voltage (L-L and L-N)
- Current (L-L and L-N)
- Reactive Power (VAr)
- Active Power (W)
- Apparent Power (VA)
- Frequency (Hz)
- Power Factor (PF)
- THD Voltage & Current
- % Max Load
- Alarm Status (available on Modbus communication)
- Phase Angle (available on Modbus communication)
- Total Energy (kWh or kVAh)

Networks:

- Single phase, 2-wire
- Single phase, 3-wire (split-phase)
- 3-phase, 3-wire
- 3-phase, 4-wire

Key Features

- For single-, split- and 3-phase applications.
- Measures Active (W), Reactive (VAr) and Apparent (VA) power.
- Displays electrical parameters on large, backlit LCD display.
- Features two independent opto-isolated digital outputs plus one analog 4-20mA output.
- Includes MODBUS® RTU communication as standard.
- Provides clear indication of electrical circuit performance.
- User-programmable scale and custom alarm messages display critical parameters and immediately alerts operators when a parameter is out of range.
- Programmable Current Transformer (CT) and Potential Transformer (PT) ratios.

Go to www.trumeter.com/apm for further information

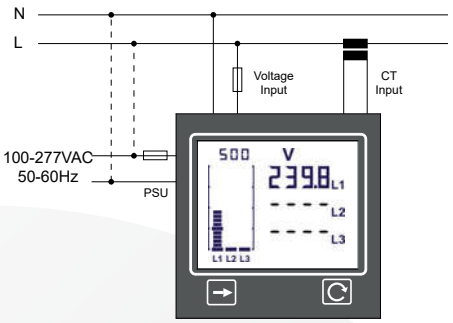
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Specifications

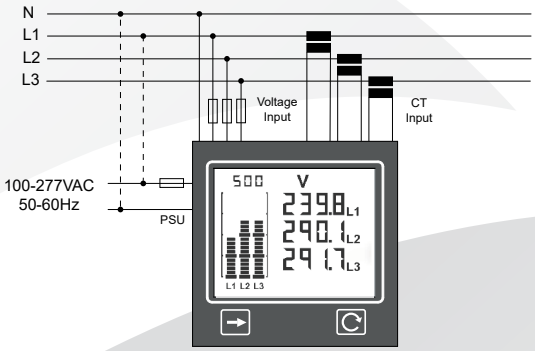
NETWORKS	1P2W, 1P3W, 3P3W, 3P4W,
MEASUREMENT	
Frequency	45 - 65 Hz
Voltage measurement range	L-L 0 - 600VAC L-N 10 - 300VAC
Programmable PT range	1:1 to 1000:1
Current measurement range	0 - 5A
Programmable CT range	1:1 to 1000:1
Accuracy	1% (THD 5%) of full scale
ENVIRONMENTAL	
Temperature - operating	-10 to +50°C
Temperature - storage	-40 to +70°C
IP rating (from the front)	IP65, NEMA type 4 and 12 (UL 50)
POWER SUPPLY	
Input	100 - 277 VAC
Supply frequency	50-60Hz
Max power	2W
DISPLAY	
Backlight colors	Red, Green, White
DIGITAL OUTPUTS	
Number	2
Type	Opto-Isolated
Operating modes	Momentary
Max voltage	24VDC
Max sink current	15mA
ANALOG OUTPUTS	
Number	1
Analog output	4-20mA
COMMUNICATION	Modbus® RTU over RS485
CERTIFICATION	CE, RoHS, UL, cUL

Wiring Diagrams and Isolation

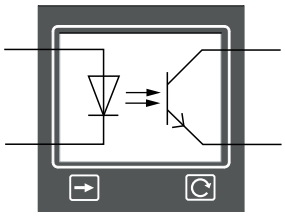
Single phase 2-wire (1P2W)



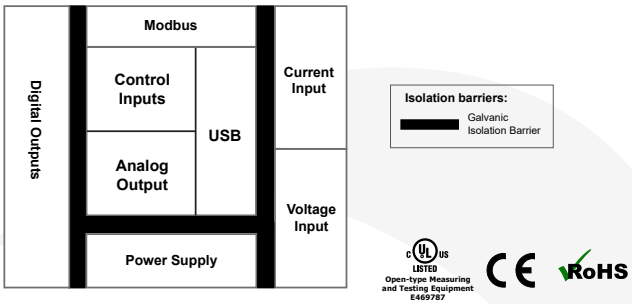
3 phase 3-wire (3P3W)



Control Outputs



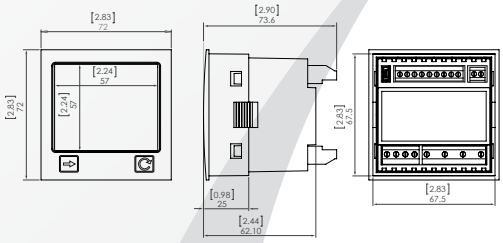
Isolation



c UL us LISTED Open-type Measuring and Testing Equipment E469787

CE RoHS

Dimensions:



Panel Cutout:
68mm x 68mm
[2.68" x 2.68"] as per DIN43700/IEC61554

Part Numbers

APM-PWR-APO	APM Power Meter, Positive LCD
APM-PWR-ANO	APM Power Meter, Negative LCD subject to MOQ & extended lead time
029461-01	USB 2.0 (A-Male to Mini-B) Cable 1.8m
024569-11	Power Meter Evaluation Kit

We can **customize our APMs** to match your requirements, adding extra **functionality** or **communication protocols** to suit your needs. If you can't find what you're looking for, **ask about our custom solutions!**

custom is our passion



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