APM Power Meter
For single-phase, split-phase & 3-phase mains networks

Advanced Panel Meter (APM)

- Programmable dynamic backlight color
- Warning flash
- 1% Accuracy
- 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)
- 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
## Specifications

### NETWORKS

#### MEASUREMENT

<table>
<thead>
<tr>
<th>Network</th>
<th>1P2W, 1P3W, 3P3W, 3P4W,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>45 - 65 Hz</td>
</tr>
<tr>
<td>Voltage range</td>
<td>L-L 0 - 600VAC</td>
</tr>
<tr>
<td></td>
<td>L-N 10 - 300VAC</td>
</tr>
<tr>
<td>Programmable PT range</td>
<td>1:1 to 1000:1</td>
</tr>
<tr>
<td>Current range</td>
<td>0 - 5A</td>
</tr>
<tr>
<td>Programmable CT range</td>
<td>1:1 to 1000:1</td>
</tr>
<tr>
<td>Accuracy</td>
<td>1% (THD 5%) of full scale</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

- Temperature - operating: -10 to +50°C
- Temperature - storage: -40 to +70°C
- IP rating (from the front): IP65, NEMA type 4 and NEMA type 12

### 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

### CERTIFICATION

- CE, RoHS, UL

## Wiring Diagrams and Isolation

### Single phase 2-wire (1P2W)

#### Control Outputs

- Voltage input
- CT input
- 100-277VAC 50-60Hz

#### Isolation

- Isolation barriers: Generic Isolation Barrier

### 3 phase 3-wire (3P3W)

#### Control Outputs

- Voltage input
- CT input
- 100-277VAC 50-60Hz

### 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 and extended lead time)
- APM-PWR-XXX: Custom Option

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