Advanced Panel Meter
APM Product Catalogue
The Advanced Panel Meter (APM) is the only range of panel meters to combine the instant visual representation of an analog meter with the speed and accuracy of a digital meter.

The APM is easy to incorporate into a multitude of applications and is simple to integrate with other systems and PLCs. The design, created for engineers and operators, combines traditional with modern, and improves the look and feel of any final unit. Its unique display is viewable in most environmental conditions, allowing instant recognition and precision measurement.

The APM improves safety and efficiency with alerts via the dynamic backlighting and starburst messaging. These are fully-customisable through the free software, allowing it to be user-programmed and tailored to specific requirements - helping reduce downtime and costs.

With its IP65 and NEMA type 4 and 12 ratings, as well as an industry leading three-year warranty the APM provides a reduction in expensive returns and costly repairs.

The APM family includes models for measuring voltage, current and frequency, as well as a Process Meter model which is custom designed for industrial sensors with analog outputs or variable speed drives. The APM range is ideal for control panel applications, such as motor control and monitoring, battery charging and load banks, power supplies, generators, and speed/rate monitoring and display.

For more information visit www.trumeter.com/apm
Volt Meter

For industrial and mains applications such as control panels, power supplies & energy management and DC applications such as battery charging, marine and electric vehicles.

- flexible measuring input
- auto-detects AC or DC
- capable of measuring up to 600V
- outputs can be used for integration with other systems

0-600VDC / 0-600VAC
Input ranges
1% Accuracy

Process Meter

The Process Meter is designed to be used with industrial sensors and equipment with an analogue output. It can also be used with variable speed drives (VSDs) to provide current or speed indication, or non-linear sensors such as flow or pressure transducers.

- display motor current with variable speed drives (VSDs)
- display rate of flow and tank levels from 0-10V/4-20mA sensors
- 20 point non-linear conversion
- outputs included for easy integration with other systems

0-10V / 0-50mA
Input ranges
0.1% Accuracy

Frequency Meter

The APM Frequency Meter is ideal for control panels where accurate frequency and speed measurement is required and is suitable for many applications including mains, industrial and aviation.

- frequency range 2-400Hz
- accurately measure DC pulses from a sensor
- able to indicate speed and rate.
- optional outputs to control or re-transmit values to other systems

2-400Hz
Input
0.5% Accuracy
AMP Meter

The Amp Meter provides accurate and clear current measurement in control panels for a wide range of applications.

- flexible 5A current measuring input
- suitable for use with current transformers up to 1000A or direct AC & DC
- optional outputs to integrate with other systems for monitoring and control

Shunt Meter

Ideal for low-side DC current measurement applications in marine, leisure and material handling as well as industrial applications such as power supplies, load banks and battery charging systems.

- accurate DC current measurement for low side applications
- 1VDC high-resolution input and two outputs
- suitable with a wide range of shunts up to 1000mV
- digital and analogue outputs as standard for easy integration

CT Meter

The APM CT Meter can be used in a wide range of applications such as motor control, heating control, industrial power supplies and energy management.

- for use with an external current transformer
- accurately measure up to 10,000 amps
- ideal for remote monitoring & energy management applications
- digital and analogue outputs for easy integration
## APM product selector

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Current</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Range</strong></td>
<td><strong>Accuracy</strong></td>
<td><strong>Galvanic Isolation</strong></td>
</tr>
<tr>
<td>VOLT</td>
<td>0-600VDC</td>
<td>1% of full scale</td>
</tr>
<tr>
<td>0-600VAC</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>PROCESS</td>
<td>0-10VDC</td>
<td>0.1% of signal or 5mV, whichever is greater</td>
</tr>
<tr>
<td>FREQUENCY</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SHUNT</td>
<td>0-1VDC</td>
<td>0.1% of signal or 0.5mV, whichever is greater</td>
</tr>
<tr>
<td>CT</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>AMP</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

### MECHANICAL

Dimensions: 72mm x 72mm x 53mm [2.83" x 2.83" x 2.09"]
Cutout: 68mm x 68mm [2.68" x 2.68"] as per DIN43700/IEC61554