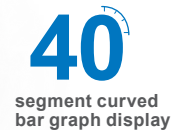
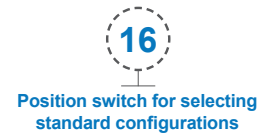
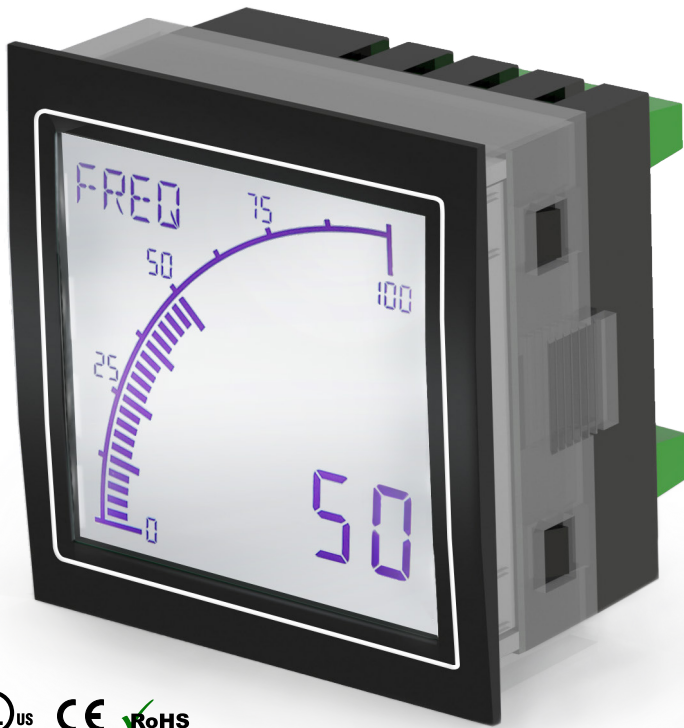




# Advanced Panel Meter

## 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.

# 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

# 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



**0-1VDC** Input **0.1%** Accuracy

# 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



**5A CT** 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



**5A** Input Direct **1%** Accuracy

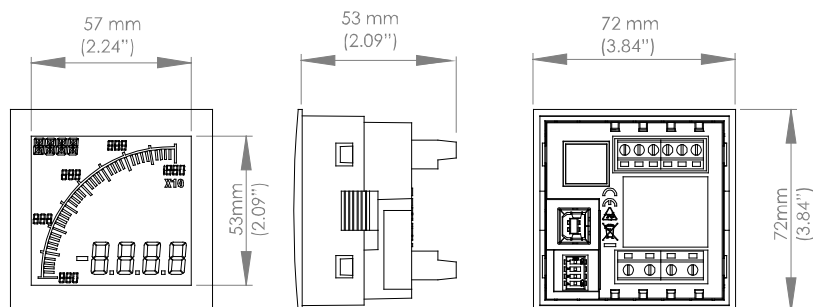
# APM product selector

	Voltage			Current			Frequency			PSU	Typical Applications
	Range	Accuracy	Galvanic Isolation	Range	Accuracy	Galvanic Isolation	Range	Accuracy	Galvanic Isolation		
<b>VOLT</b>	0-600VDC 0-600VAC	1% of full scale	No	-	-	-	-	-	-	12-24 DC and 30-400Hz	Measuring mains voltage e.g. control panels, power supplies, energy management etc.
<b>PROCESS</b>	0-10VDC	0.1% of signal or 5mV, whichever is greater	No	0-50mA	0.01% of signal or 5uA, whichever is higher	None	-	-	-	12-24 DC and 30-400Hz	Process control e.g. industrial equipment (linear and non-linear sensors)
<b>FREQUENCY</b>	-	-	-	-	-	-	2-400Hz	0.5% of full scale	None	12-24 DC and 30-400Hz	Measuring frequency and speed e.g. mains measurement, industrial and aviation applications etc.
<b>SHUNT</b>	0-1VDC	0.1% of signal or 0.5mV, whichever is greater	No	-	-	-	-	-	-	12-24 DC	Measuring DC currents with a SHUNT placed on the low side only
<b>CT</b>	-	-	-	0-10,000A via CT	0.5% of full scale	None	-	-	-	12-24DC and 50-400Hz	Measuring AC currents to 10,000A using an external CT
<b>AMP</b>	-	-	-	0-5A direct. 0-10,000A via CT	1% of full scale	2.4Kv for 1 min	-	-	-	12-24 DC and 30-400Hz	Measuring AC & DC currents directly up to 5A Measuring AC current to 10,000A using an external CT

## 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





Full specifications available online [www.trumeter.com/apm](http://www.trumeter.com/apm)



[www.trumeter.com](http://www.trumeter.com)

**Trumeter (The Americas)**

702 S. Military Trail  
Deerfield Beach, Florida  
FL 33442,  
USA  
Tel: +1 954 725 6699  
Email: [sales.usa@trumeter.com](mailto:sales.usa@trumeter.com)

**Trumeter (Europe)**

Pilot Mill  
Alfred Street  
Bury  
BL9 9EF  
Tel: +44 161 674 0960  
Email: [sales.uk@trumeter.com](mailto:sales.uk@trumeter.com)

**Innovative Design Technologies Sdn. Bhd**

Lot 5881, Lorong Iks Bukit Minyak 1  
Taman Perindustrian Iks, 14000 Bukit Tengah  
Penang, Malaysia  
Web: [www.idtworld.com](http://www.idtworld.com)  
Tel: + 604 5015700  
Email: [sales.my@idtworld.com](mailto:sales.my@idtworld.com)