



# M1 Multi Meter

3-in1 for measuring volts, amps or frequency

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## Advanced Panel Meter (APM)

**programmable dynamic backlight color**

**Warning flash**

**40 segment curved bar graph display**

**programmable to measure voltage, current or frequency**

**VOLT  
AMPS  
FREQ**

**\*NEW\* 10 alarm set points**

**programmable scale**

**less than 53mm deep**

**programmable starburst display for alarms, annunciators and functionality**

**2 outputs: Digital (open collector) or Analog (4-20mA)**  
**\*NEW\* Digital Output Delays**

**APM LINK**

**trumetercloud READY**

## Overview

### Measurement:

- Volts: 0-600 AC or DC
- Amps: 0-5A Direct  
0-10,000A via CT
- Frequency: 2Hz-400Hz

### Outputs:

- 2x: digital open collector or analog 4-20mA

### Configuration:

- PC Application via USB

### Display Options:

- Positive LCD
- Negative LCD



## Key Features

- User configurable to measure voltage, current or frequency via APM application.
- User-programmable bar graph and alarms to immediately alert operators when a parameter is out of range.
- 4 character messaging area displays custom messages, alarms and annunciators.
- Interface to other equipment using digital and analogue outputs.
- Two LCD options: Positive (as shown) for use in bright conditions or Negative for use in darker environments.
- Customizable scale, including offset and gain, range (min and max) and linear.
- **\*NEW\*** T20 point non-linearization scaling for non-linear sensors e.g. thermocouples and pressure transducers.
- **\*NEW\*** 10 independent alarm set-points can be configured to change the backlight and/or message when input is in or out of range.
- **\*NEW\*** Configurable digital output delays (control the time output stays open/closed - .5 seconds – 120 seconds).

Go to [www.trumeter.com/apm](http://www.trumeter.com/apm) for further information

## Specifications

### POWER SUPPLY

Input	12-24V AC/DC +/-10%
Max Power	1.6W
Supply Frequency	50-400Hz

### ENVIRONMENTAL

Temperature - operating	-10 to +60°C
Temperature - storage	-40 to +70°C
IP rating (from the front)	IP65, NEMA type 4 and NEMA type 12 (UL 50)

### DISPLAY

User Configurable Backlight Colors	Red, Green, White
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### ANALOG OUTPUT

Output	4-20 mA
Accuracy	0.50 %
Resolution	0.02 mA

### OPEN COLLECTOR OUTPUTS

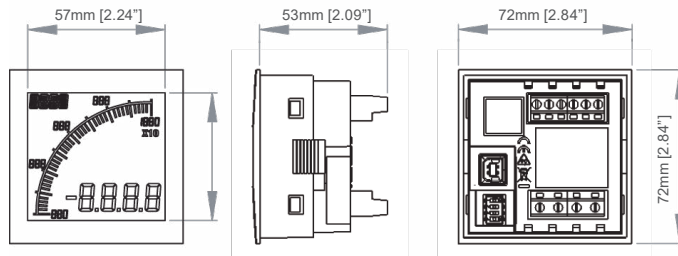
Max voltage (open collector outputs)	34 VDC
Max current (open collector outputs)	500 mA

### CERTIFICATION

	CE, RoHS, UL, cUL
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### MECHANICAL

Dimensions	72mm x 72mm x 53mm [2.83" x 2.83" x 2.09"]
Cutout	68mm x 68mm [2.68" x 2.68"]
Connection Type	Screw Terminals
Wire Gauge	0.8mm <sup>2</sup> - 3.3mm <sup>2</sup> (18AWG to 12AWG)
Weight	180 grams



## Part Numbers

<b>APM-M1-APO</b>	APM M1 Meter Positive LCD
<b>APM-M1-ANO</b>	APM M1 Meter Negative LCD
<b>022128-01</b>	USB Cable
<b>022150-01</b>	APM 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!**

