



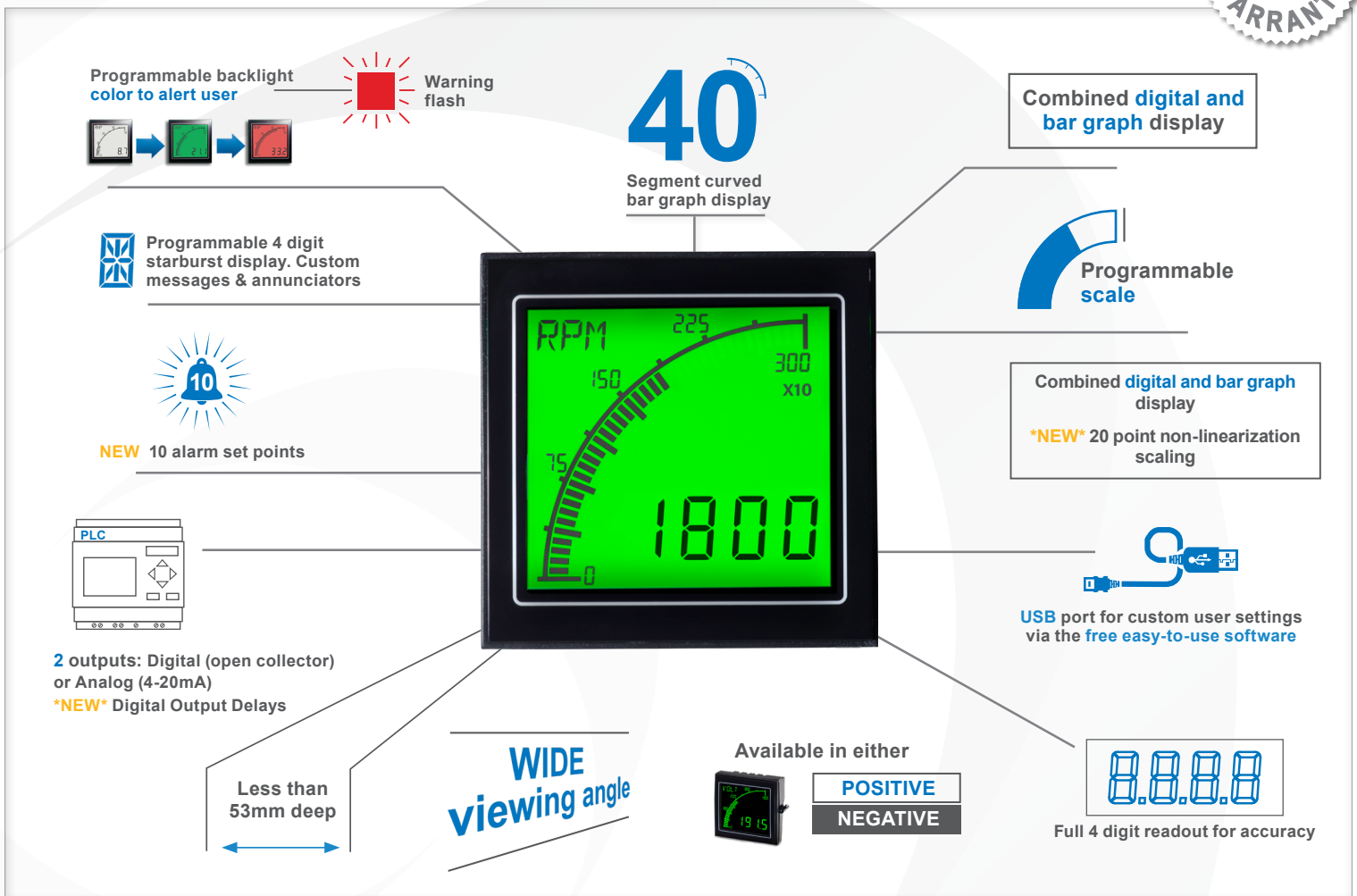
# Rate Meter

**APM**

**EVALUATION KIT AVAILABLE**  
Contact us to request yours



**Easy to Use. Easy to Read.**



**Programmable backlight color to alert user**

**Warning flash**

**40**  
Segment curved bar graph display

**Combined digital and bar graph display**

**Programmable 4 digit starburst display. Custom messages & annunciators**

**NEW 10 alarm set points**

**PLC**

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

**Less than 53mm deep**

**WIDE viewing angle**

**Available in either**  
**POSITIVE**  
**NEGATIVE**

**Combined digital and bar graph display**  
**\*NEW\* 20 point non-linearization scaling**

**Programmable scale**

**USB port for custom user settings via the free easy-to-use software**

**Full 4 digit readout for accuracy**

The Advanced Panel Meter (APM) Rate Meter was developed for use in flow applications, production lines and motorspeed monitoring. It combines the instant visual representation of an analog meter with the speed and accuracy of a digital meter. The unique display is viewable in most environmental conditions and features a programmable scale and color changing backlight for instant recognition and precision measurement.

The APM improves safety and efficiency through user programmable alarm set-points, dynamic backlighting and starburst messaging that alerts operators of changing conditions instantly. It features digital and analog outputs to communicate with other components in a system, IP65 and NEMA type 4 and 12 ratings and an industry leading three-year warranty.

## Key Features

### Large multi-format display that incorporates:

- 40 segment bar graph display
- Large 4 digit display
- Separate Starburst display area for annunciators, custom messages and alarm information
- Dynamic backlight colour

### Programmable:

- Scale (offset, gain and linear) and Range (min and max)
- User selectable backlight color and intensity
- **\*NEW\*** 20 point non-linearization scaling for non-linear sensors e.g. thermocouples and pressure transducers
- **\*NEW\*** Ten independent alarm set-points
- **\*NEW\*** Configurable digital output delays (control the time output stays open/closed - .5 seconds – 120 seconds)

### MEASUREMENT

Max Frequency	0 - 60 KHz (NPN, PNP or Push-Pull)
Min Frequency	0.001 Hz
Logic 0	< 1.2V
Logic 1	> 2.0V
Accuracy	±0.01%

### MAX WORKING

Voltage (input-COM)	36 VDC
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### ENVIRONMENTAL

Temperature - operating	-10 to +60°C
Temperature - storage	-40 to +70°C
IP rating (from the front)	Nema 4 & 12 (UL 50) with IP65

### POWER SUPPLY

Nominal Input (DC)	12-24VDC
Max Power	1.6W

### DISPLAY

Display Update Time	0.1 to 999.9 seconds
Scaling Factor	-100 to 1990x10
Number of digits	4
Digit height	12mm [0.47"]
Digit height of annunciator	6mm [0.23"]
Number of message characters	4
Backlight colors	Red, Green, White
LCD display	Positive or Negative

### OUTPUT

Max voltage	34V
Max current	500mA
Analog output	4-20mA

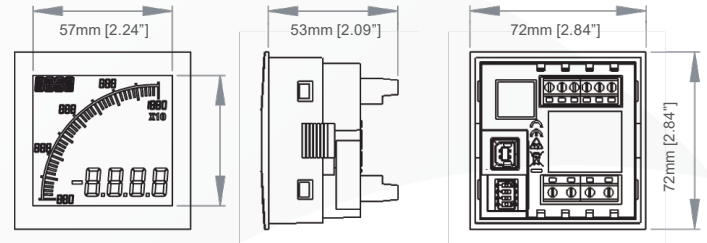
### CERTIFICATION

UL and cUL, CE, UKCA

### Visibility:

- User adjustable backlight brightness and colour
- Large display
- Wide viewing angle (both horizontal and vertical)
- Custom annunciators

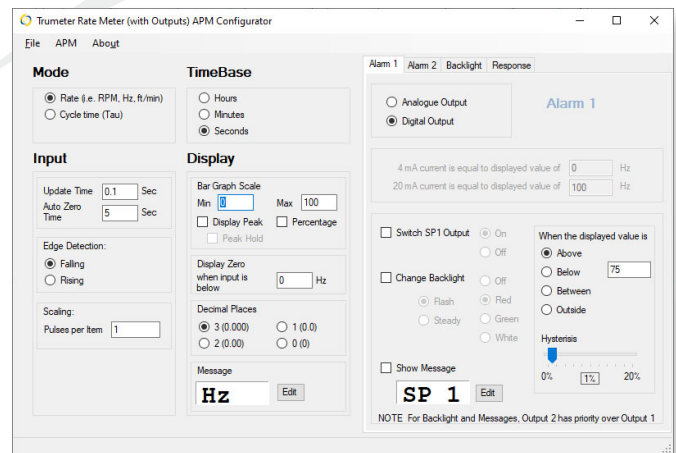
### Dimensions:



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

## Easy To Use Software

Just plug into any USB port on your PC, run the freely available APM Configurator application and you're off. No drivers required.



## Part Numbers

Part	Description
APM-RATE-APO	APM RATE METER, POSITIVE LCD WITH OUTPUTS
APM-RATE-ANO	APM RATE METER, NEGATIVE LCD WITH OUTPUTS
022128-01	USB Cable
022150-01	APM Evaluation Kit

### By Request: Modbus connectivity

APM-RATE-APS	APM RATE METER, POSITIVE LCD WITH MODBUS
APM-RATE-ANS	APM RATE METER, NEGATIVE LCD WITH MODBUS

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

