

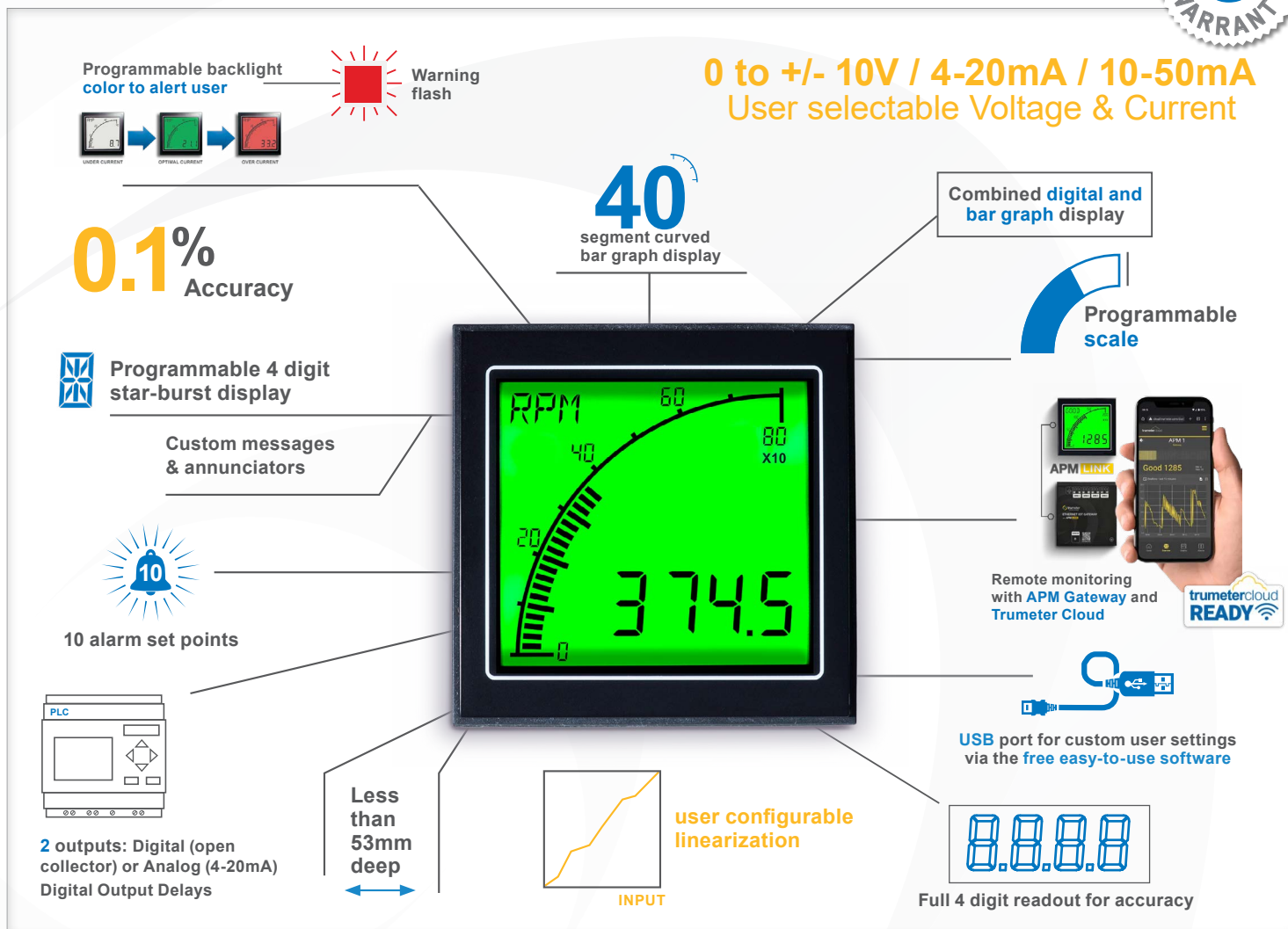


# Process Meter

For a range of industrial applications

EVALUATION KIT AVAILABLE  
Contact us to request yours

Easy to Use. Easy to Read.



Featuring an acclaimed easy-to-read display and a versatile set of inputs, the Process Meter takes the APM into a wide range of new industrial applications.

The programmable scale and custom annunciators mean users can tailor the meter to display their critical parameters exactly how they want, while the dynamic backlighting, in conjunction with setpoints, means operators are visually alerted when a parameter is out of range. The two outputs can be used to control other systems in the process, meaning the APM Process Meter is much more than just a display.

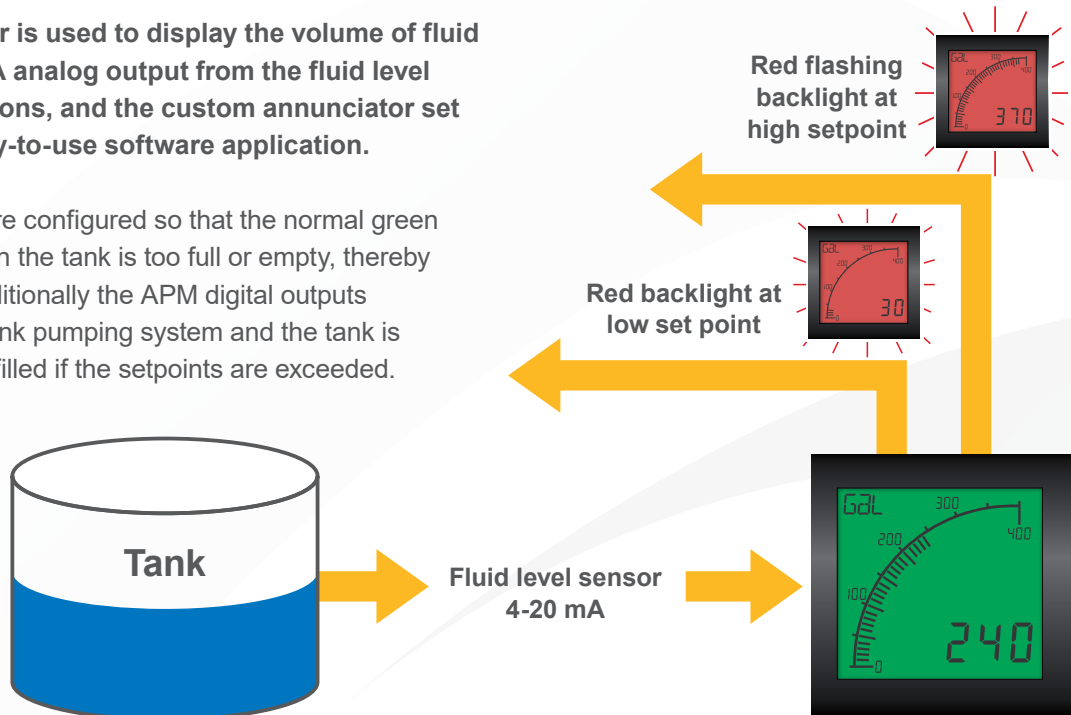
Trumeter's innovative technology brings a greater level of accuracy to the APM range through input signal optimization. By using this technology, accuracy of 0.1% or better is now achieved, allowing for more precise measurement, display and control. Non-linear sensors, such as thermocouples and pressure transducers, can also be used thanks to the new APM Configurator application that allows the user to configure upto 20 points in a non-linear conversion table.

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

## Fluid Level Application

The APM Process Meter is used to display the volume of fluid in the tank. The 4-20mA analog output from the fluid level sensor is scaled to gallons, and the custom annunciator set to “Gal”, all via the easy-to-use software application.

High and low setpoints are configured so that the normal green display will flash red when the tank is too full or empty, thereby alerting the operator. Additionally the APM digital outputs are integrated in to the tank pumping system and the tank is automatically drained or filled if the setpoints are exceeded.

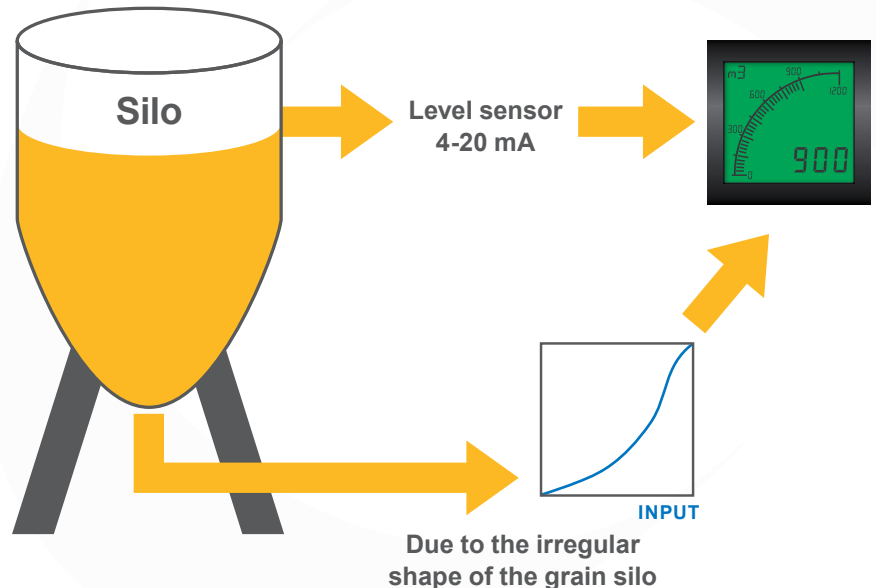


## Silo Volume Application

The APM Process Meter is used to display the volume of material in the silo, using the analog output from a level sensor.

The signal from the sensor is scaled to measure cubic meters, and the annunciator customised to  $m^3$ , all via the easy-to-use software. Due to the irregular shape of the silo, the 20-point linearization table is used to correct the non-linear signal from the sensor.

The displayed value accurately shows the volume in the silo. High or low setpoints can be set, and the APM can be integrated into other systems for process control.



## 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 color

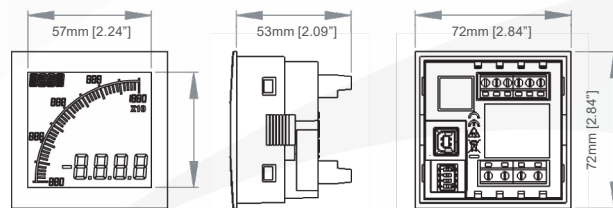
### Programmable:

- Scale (offset, gain and linear) and Range (min and max)
- Custom annunciators
- User-selectable backlight color and intensity
- 20 point non-linearization scaling for non-linear sensors e.g. thermocouples and pressure transducers
- Configurable digital output delays (control the time output stays open/closed - .5 seconds – 120 seconds)
- Two independent outputs
- 4-20mA analog retransmission output

### Visibility:

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

### Dimensions:



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

#### INPUT

Range (DC)  
Impedance

#### VOLTAGE

0 to +/-10VDC  
100KΩ

#### CURRENT

0 - 50mA  
15Ω

Accuracy

0.1% of input or 5mV  
whichever is greater

0.01% of input or 5uA  
whichever is greater

#### 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 (AC or DC)

12-24 VAC/VDC

Max Power

1.6W

#### DISPLAY

Number of digits

4

Digit height

12mm [0.47"]

Number of message characters

4

Message character height

6mm [0.236"]

Backlight colors

Red, Green, White

LCD display

Positive or Negative

#### OUTPUTS

Max voltage

34V

Max current

500mA

Analog output

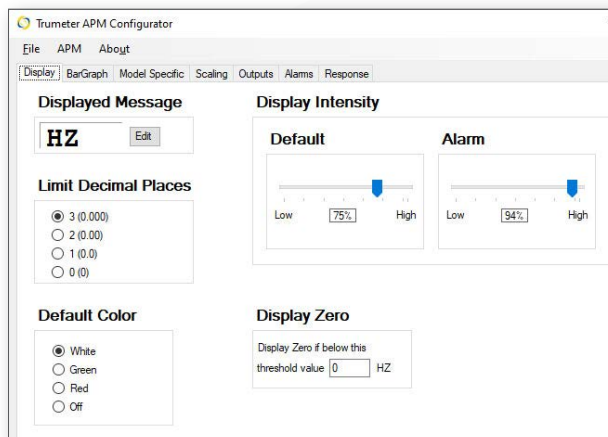
4-20mA

#### CERTIFICATION

UL and cUL, CE

## 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.



UL LISTED  
Open-type Measuring  
and Testing Equipment  
E469787

CE

RoHS

### Part Numbers:

APM-PROC-APO  
APM-PROC-ANO

APM PROCESS METER, POSITIVE LCD WITH OUTPUTS  
APM PROCESS METER, NEGATIVE LCD WITH OUTPUTS

022128-01

USB Cable

022150-01

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!

**custom**  
is our passion

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