



Volt Meter, Ammeter, Frequency Meter

Advanced Panel Meter



The most visible, easy to use, programmable panel meter on the market. The APM provides accurate measurement with an immediate visual indication of critical parameters. It has been designed for engineers who require a more effective way of monitoring and displaying data.

The unique display combines traditional moving coil meters with the latest digital panel meters and it features a multitude of options that can be set using the APM software. The backlight can be programmed to change color to alert the operator when the current or voltage supply is too high or too low, reducing the risk of equipment failing and improving efficiency

Programmable backlight color to alert user



Warning flash

40
Segment curved bar graph display

Combined digital and bar graph display



Programmable 4 digit star-burst display. Custom messages & annunciators



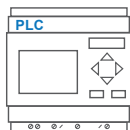
Programmable scale

2

Alarm set points

16

Position switch for selecting standard configurations



2 outputs - digital and analogue



USB port for custom user settings via the [free easy-to-use software](#)

Less than 53mm deep



WIDE
viewing angle

Available in either



POSITIVE

NEGATIVE



Full 4 digit readout for accuracy

Hoyt Electrical Instrument Works, Inc.

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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 information and alarm
- Dynamic backlight colour

Programmable:

- Scale (offset and gain) and Range (min and max)
- Custom annunciators
- User selectable backlight color and intensity
- Two independent alarm set-points
- Two independent outputs (output models only)
- 4-20mA analogue monitor output (output models only)

MEASUREMENT	VOLT	AMP	FREQUENCY
Input range (DC)	0 - 600V	0 - 5A	-
Max Using Shunt		1,000A	
Input range (AC)	0 - 600V	0 - 5A	2 - 400Hz
Max Using CT		10,000A	
Accuracy	1%	1%	0.5%
Display modes		Peak or RMS	

ENVIRONMENTAL

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

POWER SUPPLY

Nominal Input (AC or DC)	12-24 VAC/VDC
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DISPLAY

Number of digits	4
Digit height	12mm [0.47"]
Digit height of annunciator	6mm [0.23"]
Number of message characters	4
Backlight colours	Red, Green, White
LCD display	Positive or Negative

OUTPUT MODELS

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

CERTIFICATION

UL and cUL, CE

Visibility:

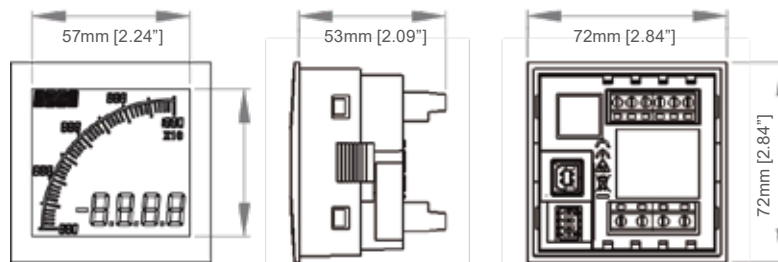
- User adjustable backlight brightness and colour
- Large display
- Wide viewing angle (both horizontal and vertical)
- Custom annunciators

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.



Dimensions:



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

Part Numbers: (POS LCD = Positive LCD; NEG LCD = Negative LCD)

Voltmeter

APM-VOLT-APN	APM Volt Meter, POS LCD
APM-VOLT-APO	APM Volt Meter, POS LCD with outputs
APM-VOLT-ANN	APM Volt Meter, NEG LCD
APM-VOLT-ANO	APM Volt Meter, NEG LCD with outputs

Ammeter

APM-AMP-APN	APM Ammeter, POS LCD
APM-AMP-APO	APM Ammeter, POS LCD with outputs
APM-AMP-ANN	APM Ammeter, NEG LCD
APM-AMP-ANO	APM Ammeter, NEG LCD with outputs

Frequency Meter

APM-FREQ-APN	APM Freq. Meter, POS LCD
APM-FREQ-APO	APM Freq. Meter, POS LCD with outputs
APM-FREQ-ANN	APM Freq. Meter, NEG LCD
APM-FREQ-ANO	APM Freq. Meter, NEG LCD with outputs

By Request: Modbus connectivity

APM-VOLT-APS	APM Volt Meter, POS LCD with modbus	APM-AMP-APS	APM Ammeter, POS LCD with modbus	APM-FREQ-APS	Freq. Meter, POS LCD with modbus
APM-VOLT-ANS	APM Volt Meter, NEG LCD with modbus	APM-AMP-ANS	APM Ammeter, NEG LCD with modbus	APM-FREQ-ANS	Freq. Meter, NEG LCD with modbus

022128-01 USB Cable

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