

Models Available

APM-AMP AC/DC Digital Ammeter APM-VOLT AC/DC Digital Voltmeter APM-FREQ Digital Frequency Meter APM-PROC Digital DC Process Meter

Product Features

- 40 segment bar graph display
- Large 4 digit display
- Dynamic coloured backlight
- User adjustable brightness and colour
- High contrast, anti-glare LCD screen
- Wide viewing angle
- Custom annunciators
- Positive or negative display options
- Optional two independent outputs
- IP65 supplied complete with gasket

Tel: +44 (0) 1621 859500

Eltime Controls

Digital Advanced Panel Meters

The APM meters incorporate a 40 segment analogue display together with a 4 digit digital display providing both an accurate reading combined with a simple, visual indication. These panel mounting meters have a user selectable red, green or white LED backlight and are 12-24Vac/dc powered.

They can be connected to the USB port on a PC and configured using the free software, or for some standard ranges, through DIP switches on the rear of the meter. The meters are housed in a compact DIN72 enclosure and are sealed to a protection rating of IP65.

All meters are available with either black digits/markings on a coloured background (positive display) or coloured digits/markings on a black background (negative display) and have an option of two independent outputs, programmable as setpoints or analogue outputs.

For measurement of AC current, AC voltage, frequency and process signals

General Specification	Connections
Power Supply:	
- 12-24Vac/dc	0.5A Fuse
Power Consumption:	+~ 12-24Vac/dc
- 80mA (backlight off)	
- 160mA (backlight on)	
Display:	
- 4 digit, 0.47" high	
- 40 segment bar graph	SP2 - + +
- 4 characters for message/title	PSUOLO
- Red, green or white backlight	
(selectable)	
 Positive or negative display (specify) 	
solation:	
 Power supply & voltage input: 600V 	
 Power supply & current input: 2kV 	
Open Collector Output:	Measured voltage, current or frequency direct (600V/5A max.)
- 24V max., 500mA max., 0.6W max.	
I-20mA Analogue Output:	
- Accuracy 0.5%	l k
- Resolution 0.02mA	Measured AC current using a CT (1000A max.)
Enclosure Code:	
- Case IP65, supplied with gasket	
Operating Temperature:	
10°C to +60°C	Measured DC current using a shunt (1000A max.)
Storage Temperature:	
40°C to +70°C	
Weight:	
- 180g	
Markings:	
CE marked	

Web: www.eltime.co.uk

Ordering information

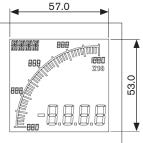
Model	Code	Description
	APM-AMP	72 x 72mm Digital AC/DC Ammeter
	APM-VOLT	72 x 72mm Digital AC/DC Voltmeter
	APM-FREQ	72 x 72mm Digital Frequency meter
	APM-PROC	72 x 72mm Digital DC Process meter
Display	Code	Description
	-AP	Positive Display
	-AN	Negative Display
Outputs	Code	Description
	Ν	None (N/A for APM-PROC)
	0	Two Independent Outputs
		Programmable as Setpoints
		or Analoguo Outputo

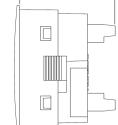
or Analogue Outputs

Example

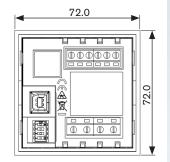
APM-VOLT-APO

Dimensions





53.0



Max. Panel Thickness 7mm Panel Cutout 68mm square

All dimensions in mm

Display Options (Selectable)



Positive White



Negative White



Negative Green

Positive Green



Positive Red



Negative Red

Specification (Ammeter) Input Current, In: - 0-5A direct or CT operated **CT Ratio (Programmable):** - 5/5A to 1000/5A Shunt Ratio (Programmable): - Up to 1000A Impedance: - 2milliohms Accuracy: - 1% **Resolution:** – 2.4mA Sample Rate: – 40kHz **Display Modes:** - peak or RMS **Specification (Voltmeter)**

Input Voltage, Un: - 0-600Vdc or 0-528Vac Maximum Over Voltage Rating: - 800V Impedance: - 1.5Mohms Accuracy: - 1% **Resolution:** - 10mV Sample Rate: 40kHz **Display Modes:** - peak or RMS **Specification (Frequency Meter) Input Frequency:** - 0-400Hz Impedance: - 1.5Mohms Accuracy: - 0.1% **Resolution:** - 0.1Hz

- Sample Rate:
- 40kHz
- Signal Level:
- 10-528Vac

Specification (DC Process Meter) Input:

- 0 to +/-10Vdc or 0-50mA
- Impedance:
- 10V input: 100kohms
- 50mA input: 15ohms

Accuracy:

- 10V input: 0.1%, 50mA input: 0.01% Specification subject to change without notice.