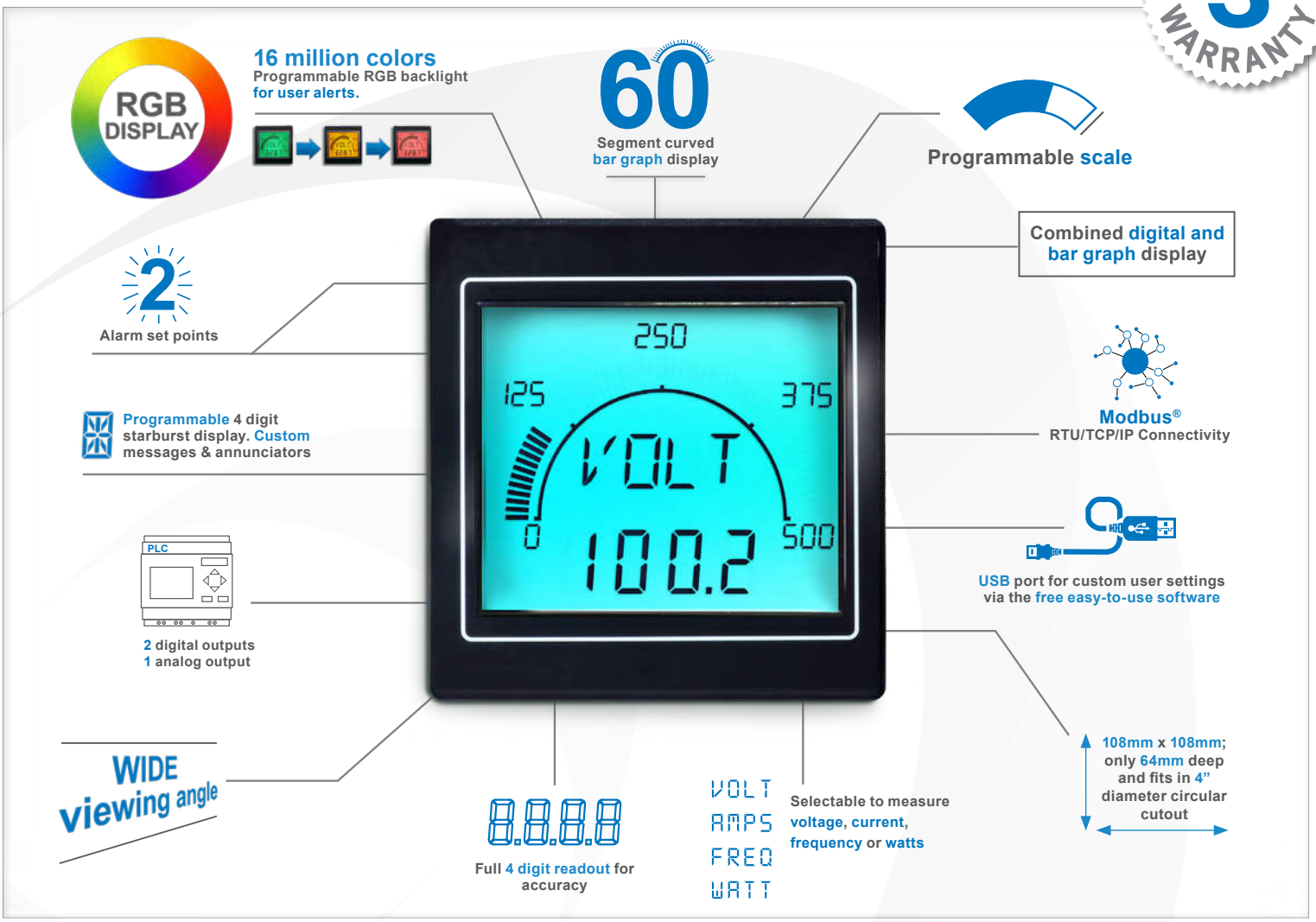
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APM-MAX

M21 and M23



THREE YEAR 3 WARRANTY



Designed for a wide range of power monitoring applications, the APM-MAX combines the instant visual representation of an analog meter with the speed and accuracy of a digital meter for instant recognition and precision measurement. The large 81.5mm x 66mm display features a two-line display, programmable scale, alarm set-points and color-changing, full color RGB backlight for instant alerts.

APM-MAX-M21: for high voltage applications; configurable as an ammeter, volt meter, frequency meter or power monitor (Watts, VA & Power Factor).
APM-MAX-M23: for low voltage applications; configurable as a process meter or to be used in conjunction with a shunt.

Both models feature digital and analog outputs and serial MODBUS® RTU as standard (ethernet MODBUS® also available) for communication with other components in a system as well as an IP65 rating and our industry leading three-year warranty.

Go to www.trumeter.com/apm for further information

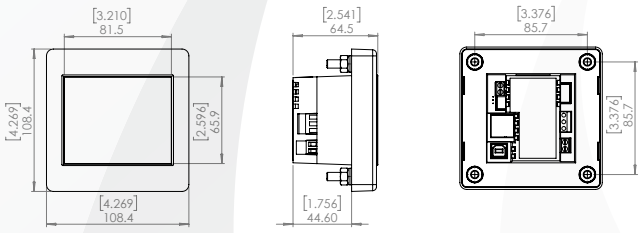
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custom is our passion

Specifications

MEASUREMENT	M21	M23
Input range (V1)	0-600V DC/AC 47-63Hz	0–10V DC
Input range (V2)	-	0–5A DC
Current Input range (Direct)	0–5A DC/AC 45-65Hz	0–50mA DC
Current Input range (w/shunt)	0-500mV DC	0-500mV DC
Frequency (AC)	0–400Hz	0–400Hz
Power Measurement	Watts, VA & Power Factor	-
Accuracy (DC & Frequency)	0.1%	
Accuracy (AC)	0.5%	
Display modes	RMS	
ENVIRONMENTAL		
Temperature - operating	-10 to +60°C	
Temperature - storage	-40 to +70°C	
IP rating (from the front)	IP65	
POWER SUPPLY		
Universal (AC)	100–240V AC (50-60Hz)	
Low Voltage (DC)	12-24V DC (50-60Hz AC)	
DISPLAY		
Number of digits	4	
Digit height	14.5mm [0.57"]	
Digit height of annunciator	6.8mm [0.27"]	
Number of message characters	4	
Backlight colors	Full RGB backlight and White	
LCD display	Positive or Negative	
OUTPUTS		
Max voltage	34V	
Max current	500mA	
Analog output	4-20mA or 0-10V	
COMMUNICATION		
Modbus®	RTU and/or TCP/IP	
CERTIFICATION	UL and cUL, CE	

Dimensions:



Panel cutout: Square: 68mm x 68mm [2.7" x 2.7"] Circle Diameter: 96mm [3.8"]

Large multi-format display that incorporates:

- 60 segment bar graph display
- Large 4 digit display
- Separate Starburst display area for annunciators, custom messages and alarm info
- Full color RGB dynamic backlight for user alerts

Programmable:

- Scaling and Range (min and max)
- Custom annunciators
- User selectable backlight color and intensity
- Two independent alarm set-points
- Two independent outputs
- 4-20mA analog monitor output

Visibility:

- The largest display of any APM
- User adjustable RGB backlight provides an almost infinite range of colors for different requirements or environmental conditions.
- Wide viewing angle (both horizontal and vertical)
- Custom annunciators

Part Numbers

Standard Models - Modbus RTU

APM-MAX-M21-PU-4R Positive LCD, volt, amp, freq or power monitor, RTU
APM-MAX-M23-PU-4R Positive LCD, process or shunt meter, RTU
APM-MAX-M21-NU-4R Negative LCD, volt, amp, freq or power monitor, RTU
APM-MAX-M23-NU-4R Negative LCD, process or shunt meter, RTU
APM-MAX-M21-PL-4R Positive LCD, low voltage, volt, amp, freq or power monitor, RTU
APM-MAX-M23-PL-4R Positive LCD, low voltage, process or shunt meter, RTU
APM-MAX-M21-NL-4B Negative LCD, low voltage, volt, amp, freq or power monitor, RTU
APM-MAX-M23-NL-4B Negative LCD, low voltage, process or shunt meter, RTU

Standard Models - Modbus TCP/IP and RTU

APM-MAX-M21-PU-4B Positive LCD, volt, amp, freq or power monitor, TCP/IP and RTU
APM-MAX-M23-PU-4B Positive LCD, process or shunt meter, TCP/IP and RTU
APM-MAX-M21-NU-4B Negative LCD, volt, amp, freq or power monitor, TCP/IP and RTU
APM-MAX-M23-NU-4B Negative LCD, process or shunt meter, TCP/IP and RTU
APM-MAX-M21-PL-4B Positive LCD, low voltage, volt, amp, freq or power monitor, TCP/IP and RTU
APM-MAX-M23-PL-4B Positive LCD, low voltage, process or shunt meter, TCP/IP and RTU
APM-MAX-M21-NL-4B Negative LCD, low voltage, volt, amp, freq or power monitor, TCP/IP and RTU
APM-MAX-M23-NL-4B Negative LCD, low voltage, process or shunt meter, TCP/IP and RTU

Options

DESCRIPTOR	DEFINITION	OPTIONS
-?X-XX	LCD Type	P - Positive N - Negative LCD also available
-X?-XX	PSU Type	U – Universal 100–240V AC 50-60Hz L – Low Voltage 12-24V DC / 50-60Hz AC
-XX-?X	Analog Output	4 – 4 to 20mA / 0 – 20mA switchable *1 - 0 to 10V DC also available**
-XX-X?	Communications	R – Modbus® RTU B – Modbus® TCP/IP and Modbus® RTU



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