

Trumeter ADM Series Graphical Panel Meters



Graphical panel meters with versatile programmable features and user-configurable alarms

Trumeter's line of graphical panel meters combines the instant visual representation of an analog meter with the accuracy of a digital meter.

These meters feature a programmable bar graph and alarms to immediately alert operators when a parameter is out of range. In addition, a four-character messaging area displays custom messages, alarms and annunciators.

Each meter is configurable to measure voltage, current or frequency. The ADM100-Lx model is for use with a low voltage power supply, and the ADM100-Hx is for use with mains power. Both models offer two LCD options – positive LCD for bright conditions or negative LCD for dark environments.

Flexible metering solution

- Fully programmable scalable input
- User-selectable measurement range (min, max and span)
- Two independent alarm outputs
- A fully scaled analog monitor output
- Programmable backlight automatically changes color or flashes when the input reaches a certain value or goes outside a specific range
- Configurable via an easy-to-use PC utility



**ADM100-LN
ADM100-HN
Negative LCD**

Bright digits on black background

**ADM100-LP
ADM100-HP
Positive LCD**

Black digits on bright background



UL file # E469787

Overview

Measurement

- Voltage: 0-600 AC or DC
- Current: 0-5A direct
0-9,999A via CT
- Frequency: 2-400 Hz (not recommended for VFD or non-sinewave sources)

Outputs

- 2x digital open collector
- 2x analog 4-20 mA

Input Power

ADM100-Lx: 12-24 VAC/VDC (+/- 10%)
ADM100-Hx: 100-240 VAC
or 110-300 VDC (+/- 10%)

Free Configuration Utility Download

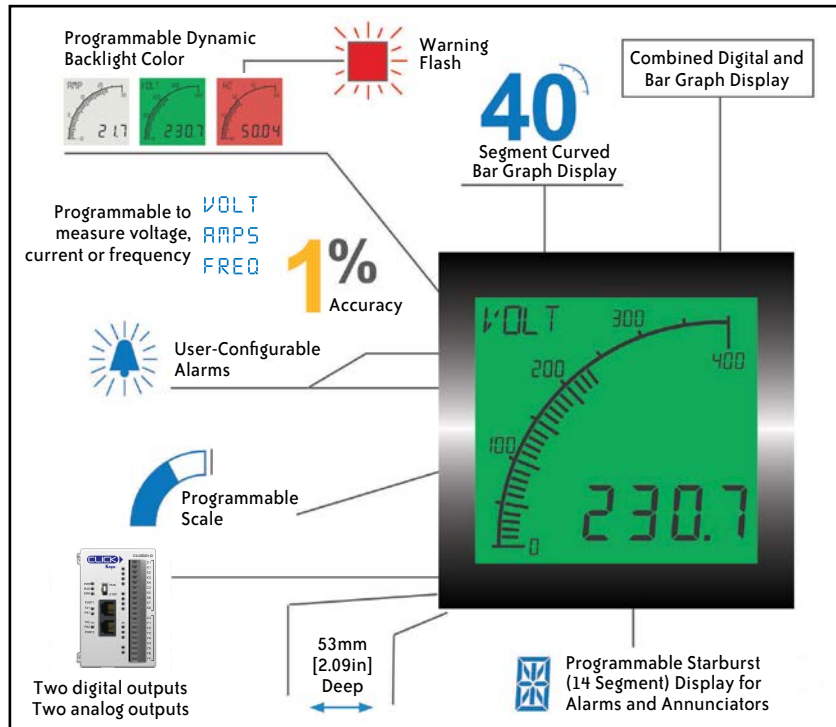
- PC utility via USB
- Basic configuration without PC (default setting is volts)

Display Options

- Positive LCD (bright environments)
- Negative LCD (dark environments)

Programmable

- Scale (offset and gain) and Range (min and max)
- Four-character starburst for custom annunciators
- User-selectable backlight color and intensity
- Two independent alarm set-points
- Two independent outputs
- 4-20 mA analog monitor output



Key features

- Large multi-format display
- 40-segment bar graph display
- Large 4-digit display
- Separate starburst display area for annunciators, custom message and alarm information
- Dynamic backlight color
- User-adjustable backlight brightness, flash and color (red, green, white)
- Wide viewing angle (both horizontal and vertical)
- Three-year warranty (with registration at trumeter.com)

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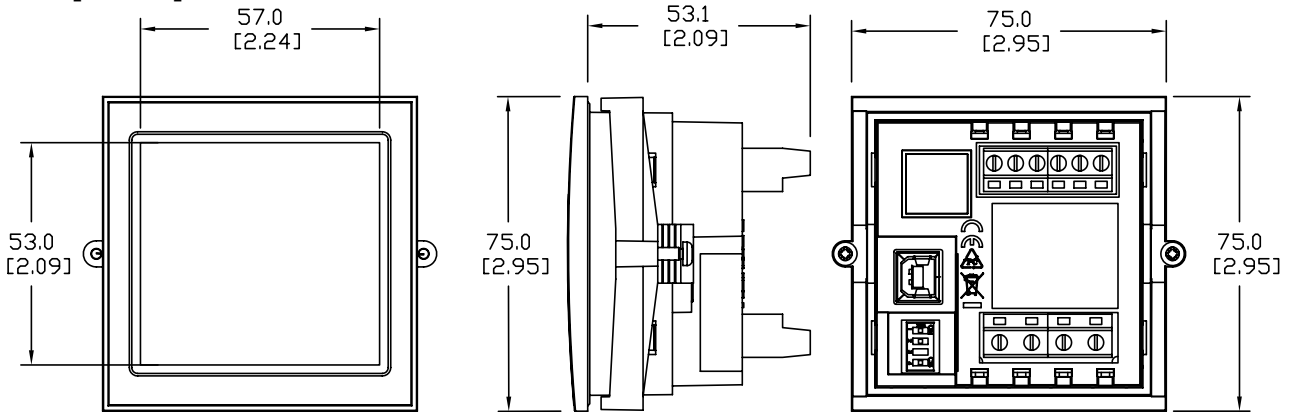
Graphical Panel Meters		
Part Number	Description	Price
ADM100-LP	Graphical Panel Meter. Supply voltage 12-24 VAC/VDC. Positive LCD. Current, voltage or frequency input with two discrete or analog configurable outputs.	
ADM100-LN	Graphical Panel Meter. Supply voltage 12-24 VAC/VDC. Negative LCD. Current, voltage or frequency input with two discrete or analog configurable outputs.	
ADM100-HP	Graphical Panel Meter. Supply voltage 100-240 VAC. Positive LCD. Current, voltage or frequency input with two discrete or analog configurable outputs.	
ADM100-HN	Graphical Panel Meter. Supply voltage 100-240 VAC. Negative LCD. Current, voltage or frequency input with two discrete or analog configurable outputs.	

Trumeter ADM Series Graphical Panel Meters				
Part Number	ADM100-LP	ADM100-LN	ADM100-HP	ADM100-HN
Power Supply				
Input	12-24 VAC/VDC +/- 10%		100-240 VAC or 110-300 VDC (+/-10%)	
Power Consumption	1.6 W (max)		1.6 W (max)	
Supply Frequency	50-400 Hz		47-63 Hz	
Measurement Inputs				
Voltage	0-600 VAC/VDC RMS			
Current (Direct Connection)	0-5A			
Current (With Current Transformer)	0-9,999A			
Frequency	2-400Hz (not recommended for non-sinewave sources)			
Display				
User Configurable Backlight Colors	Red, Green, White			
Positive/Negative LCD	Positive	Negative	Positive	Negative
Readout Text Character Size	Four-digit display, 0.47 in [12mm]			
Message Text Character Size	Four-digit display, 0.24 in [6mm]			
Bar Graph Character Size	40 segments, 0.24 in [6mm]			
Environmental				
Operating Temperature	14 to 140°F (-10 to 60°C)			
Storage Temperature	-40 to 158°F (-40 to 70°C)			
IP Rating (from the front)	IP65, NEMA type 4 and NEMA type 12			
Analog Outputs (2)				
Output	4-20 mA			
Accuracy	0.50%			
Resolution	0.02 mA			
Open Collector Outputs (2)				
Max Voltage	34VDC			
Max Current	500mA			
Programming				
Programming Port	USB 2.0 (requires USB Type A to Type B cable, sold separately – USB-CBL-AB3, AB6, AB10 or AB15)			
Agency Approvals				
Certification	CE, UL (File #E469787)			
Mechanical				
Wire Connection Type	Screw Terminals			
Wire Gauge (Solid or Stranded)	18AWG to 12AWG (0.8 mm ² - 3.3 mm ²). Torque 0.5-0.6 Nm [4.43-5.31 lb-in]			
Weight	6.35 oz (180g)			
Mounting Clips Screw Torque	<0.4 Nm [3.54 lb-in]			

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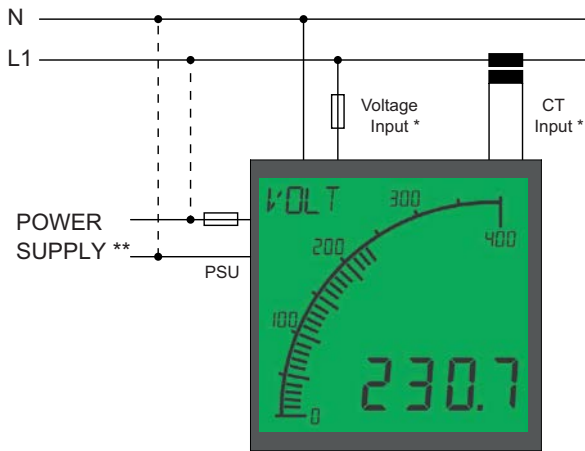


Dimensions mm [inches]



Wiring Diagrams

Single phase 2-wire (1P2W)

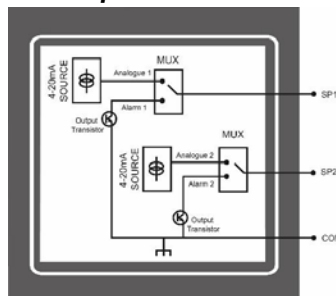


* Both connection options shown. User must select one (volts, amps or frequency) to be displayed.

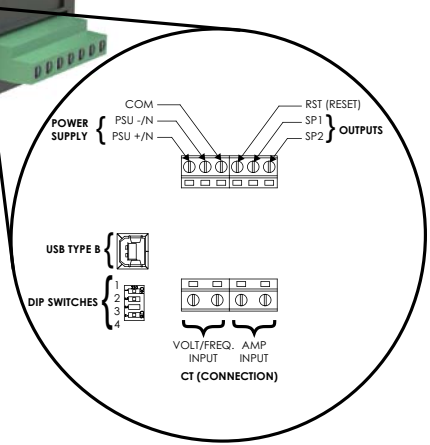
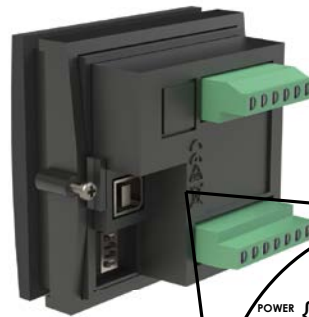
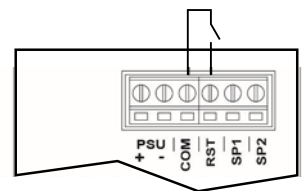
** Dotted lines show 100-240 VAC power option on ADM100-Hx models. ADM100-Lx units use the 12-24 VAC/VDC PSU connection shown.

Rear connections

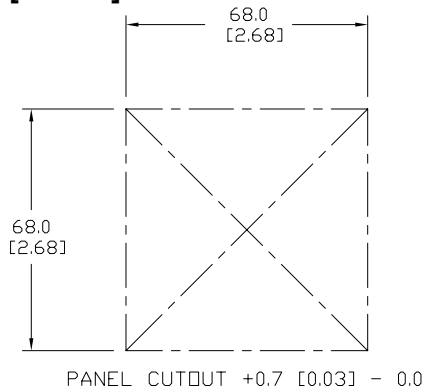
Outputs



Reset for Peak Hold



Panel Cutout Dimensions mm [inches]



Note: DIP switch setting is 0 for positions 1, 2, 3 and 4 off. To change the default setting, visit <https://support.automationdirect.com/downloads.html#tools> for free Trumeter ADM configuration utility download.

Please see our website for complete engineering drawings.