

Trumeter ADM200 Series Process and Multimeters

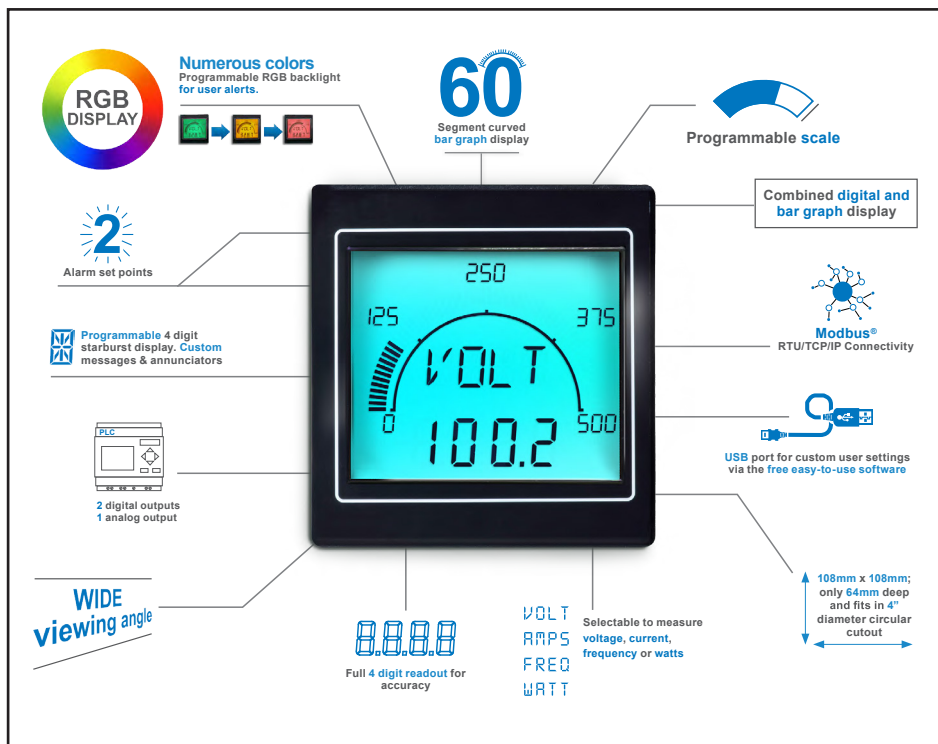


For industrial process monitoring applications

Designed for a wide range of power and process monitoring applications, the ADM200 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.

Trumeter ADM Series Multimeters feature an acclaimed easy-to-read display and a versatile set of inputs, making them ideal for a wide range of industrial applications.

The Trumeter ADM Series Multimeter is an all-in-one meter that can be configured to measure amps, voltage, frequency or power (Watts, VA, var & Power Factor). Used for voltage applications.



Key features

- 60-segment bar graph display
- Large 4-digit display
- Separate starburst display area for annunciators, custom messages and alarm information
- Dynamic backlight color
- User-adjustable backlight brightness and color (RGB)
- Wide viewing angle (horizontal and vertical)
- Custom annunciators
- Three-year warranty



ADM200-LN-CS

Negative LCD
Bright digits on black background

ADM200P-LP-CS

Positive LCD
Black digits on bright background



Overview

Voltage Input

- ADM200: 0 to 600V DC/AC
- ADM200P: 0–10 VDC
- ADM200P: 0–500mV DC (w/Shunt)

Current Input

- ADM200: 0–5A AC/DC

Frequency Input

- ADM200(P): 0 – 400 Hz

Outputs

- Max voltage: 34V
- Max current: 500mA
- Analog: 4 – 20mA or 0 – 10V
- 2 Digital Outputs

Power Supply

- Universal: 100–240V AC
- Low Voltage: 12–24V DC

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

- Display range (Min and Max values)
- Custom annunciators
- User-selectable backlight color and intensity
- Two independent alarm set-points
- Two independent outputs
- 4–20 mA analog retransmission output

Trumeter ADM200 Series Multimeters



Trumeter ADM Series Multimeters Specifications								
Part Number	ADM200-LN-CS	ADM200-HN-CS	ADM200-LP-CS	ADM200-HP-CS	ADM200-LN-CE	ADM200-HN-CE	ADM200-LP-CE	ADM200-HP-CE
Price	\$222.00	\$222.00	\$222.00	\$222.00	\$263.00	\$249.00	\$263.00	\$249.00
Drawing	PDF	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Modbus Communication	RTU				RTU and TCP			
Power Measurement	Watts, VA, var, and Power Factor							
Power Supply								
Input	Low Voltage (AC/DC): 12 – 24V; Universal (AC): 100 – 240V							
Power Consumption	5W max							
Supply Frequency	50 – 60Hz							
Voltage Input								
Range	0 – 600V AC/DC (45 – 65Hz)							
Impedance	2M Ω							
Accuracy	0.5%							
Current Input								
Range	Direct: 0 – 5AAC/DC (45 – 65Hz); w/shunt: 0 – 500mVDC							
Impedance	4M Ω							
Accuracy	0.5%							
Frequency Input								
Range	0 – 400 Hz							
Accuracy	0.5%							
Display								
User Configurable Backlight Colors	RGB							
Positive/Negative LCD	Negative	Positive			Negative	Positive		
Digital Readout Character Size	Four-digit display, 0.57 in [14.5 mm]							
Message Text Character Size	Four-digit display, 0.27 in [6.8 mm]							
Bar Graph Character Size	60 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							
Analog Outputs (1)								
Analog Output	4-20 mA or 0 – 10V							
Accuracy	0.5%							
Resolution	0.2mA / 0.013mV							
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	UL, cUL, CE							
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 N•m [4.43-5.31 lb•in]							
Weight	6.35 oz (180g)							
Mounting Clips Screw Torque	< 0.4 N•m [3.54 lb•in]							

Trumeter ADM200 Series Process Meters



Trumeter ADM Series Process Meters Specifications

Part Number	ADM200P-LN-CS	ADM200P-HN-CS	ADM200P-LP-CS	ADM200P-HP-CS	ADM200P-LN-CE	ADM200P-HN-CE	ADM200P-LP-CE	ADM200P-HP-CE
Price	\$222.00	\$222.00	\$222.00	\$222.00	\$263.00	\$249.00	\$263.00	\$249.00
Drawing	PDF	PDF	PDF	PDF	PDF	PDF	PDF	PDF
Modbus Communication	RTU				RTU and TCP			
Power Supply								
Input	Low Voltage (AC/DC): 12 – 24V; Universal (AC): 100 – 240V							
Power Consumption	5W max							
Supply Frequency	50 – 60Hz							
Voltage Input								
Range	V1: 0 – 10 VDC; V2: 0 – 5A DC							
Impedance	2M Ω							
Accuracy	DC and Frequency: 0.1%; AC: 0.5%							
Current Input								
Range	Direct: 0-50 mA DC (Terminals D+V and -V) W/shunt: 0-500 mV DC (Terminals I+V and -V)							
Impedance	15 Ω							
Accuracy	0.1%							
Frequency Input								
Range	0 – 400 Hz							
Accuracy	0.1%							
Display								
User Configurable Backlight Colors	RGB							
Positive/Negative LCD	Negative	Positive		Negative		Positive		
Digital Readout Character Size	Four-digit display, 0.57 in [14.5 mm]							
Message Text Character Size	Four-digit display, 0.27 in [6.8 mm]							
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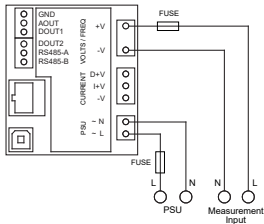
Trumeter ADM200 Series Multimeters



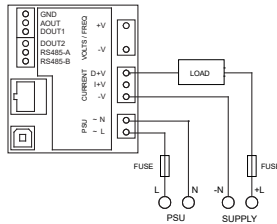
Wiring Diagrams (ADM-200-H)

All fuses must be 0.5A / 250V Type F (fast acting fuse) with a breaking capacity of 35A or greater.

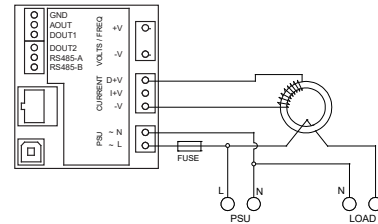
VOLT / FREQUENCY MEASUREMENT



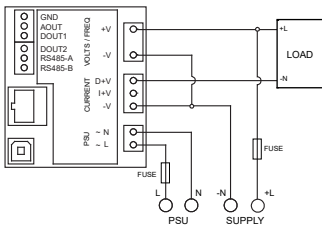
AC/DC CURRENT MEASUREMENT SERIES LOAD (MAX 5A)



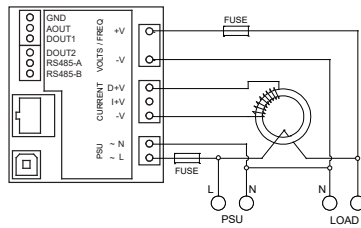
AC CURRENT MEASUREMENT USING CT (5A MAX)



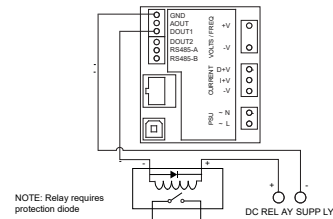
AC/DC POWER MEASUREMENT SERIES LOAD (5A MAXIMUM)



AC POWER MEASUREMENT WITH A CT



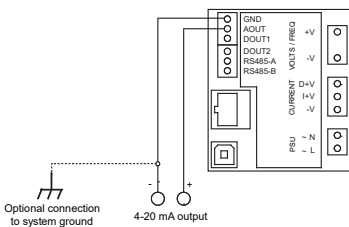
RELAY OUTPUT



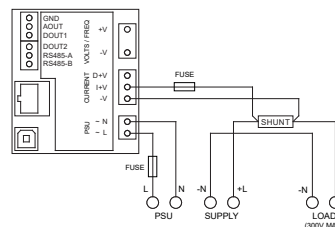
NOTE: Relay requires protection diode

DC RELAY SUPPLY

4-20mA ANALOG OUTPUT

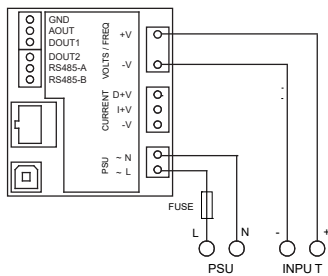


AC/DC CURRENT MEASUREMENT USING SHUNT (MAX 500mV)

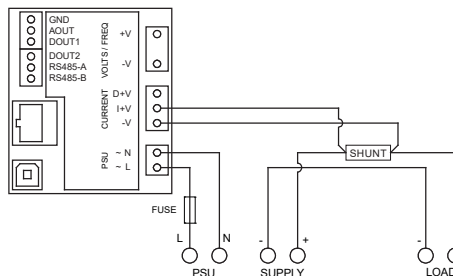


Wiring Diagrams (ADM-200P-H)

DC VOLTAGE MEASUREMENT | AC FREQUENCY MEASUREMENT

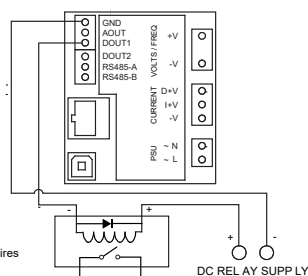


DC CURRENT MEASUREMENT USING SHUNT (500mV MAX)



All fuses must be 0.5A / 250V Type F (fast acting fuse) with a breaking capacity of 35A or greater.

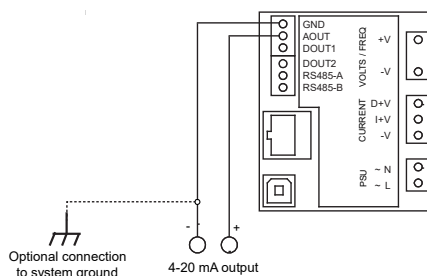
RELAY OUTPUT (ACTIVATED BY DOUT1)



NOTE: Relay requires protection diode

DC RELAY SUPPLY

4-20mA ANALOG OUTPUT



Optional connection to system ground

4-20 mA output

Trumeter ADM200 Series Multimeters



Easy-To-Use Configuration Tool

Just plug into any USB port on your PC, run the free ADM Configuration application, and you're off.

