

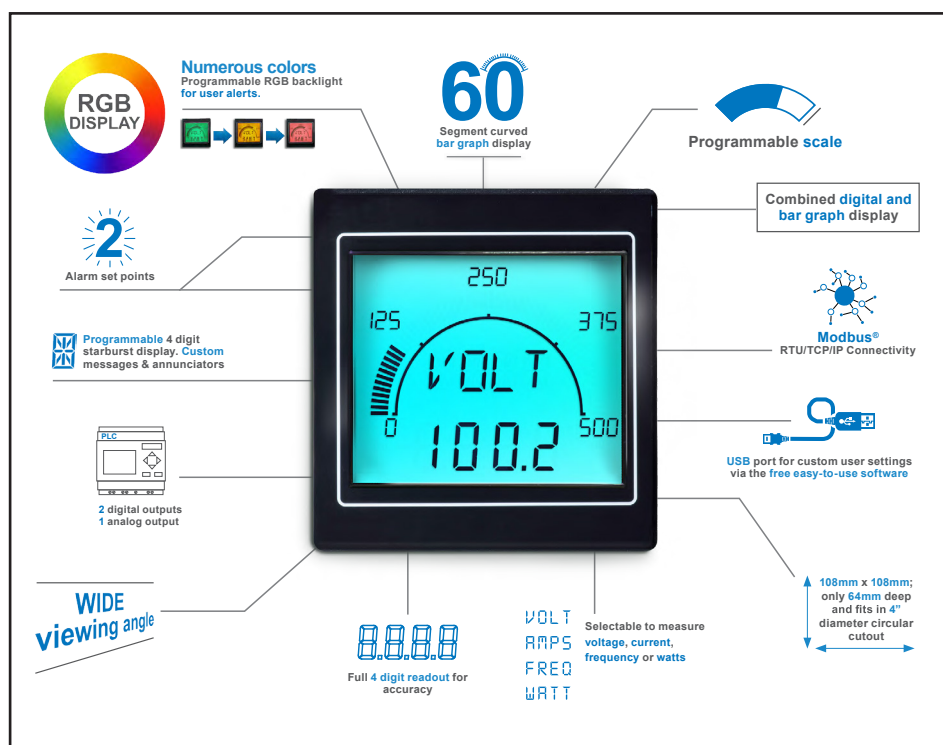
# Trumeter ADM200 Series Process and Multimeters

## 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                                          | \$228.00                                                                                          | \$228.00            | \$228.00            | \$228.00            | \$271.00            | \$256.00            | \$271.00            | \$256.00            |
| Drawing                                        | <a href="#">PDF</a>                                                                               | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> |
| 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                                      | 2MΩ                                                                                               |                     |                     |                     |                     |                     |                     |                     |
| 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 <sup>2</sup> - 3.3 mm <sup>2</sup> ). 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                                             | \$228.00                                                                                                                                                           | \$228.00            | \$228.00            | \$228.00            | \$271.00            | \$256.00            | \$271.00            | \$256.00            |
| Drawing                                           | <a href="#">PDF</a>                                                                                                                                                | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> | <a href="#">PDF</a> |
| 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                                         | 2MΩ                                                                                                                                                                |                     |                     |                     |                     |                     |                     |                     |
| Accuracy                                          | DC and Frequency: 0.1%; AC: 0.5%                                                                                                                                   |                     |                     |                     |                     |                     |                     |                     |
|                                                   | Current Input                                                                                                                                                      |                     |                     |                     |                     |                     |                     |                     |
| Range                                             | Direct: 0-50 mA DC (Terminals D+V and -V)<br>W/shunt: 0-500 mV DC (Terminals I+V and -V)                                                                           |                     |                     |                     |                     |                     |                     |                     |
| Impedance                                         | 15Ω                                                                                                                                                                |                     |                     |                     |                     |                     |                     |                     |
| 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]                                                                                                                               |                     |                     |                     |                     |                     |                     |                     |
| 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 – <a href="#">USB-CBL-AB3</a> , <a href="#">AB6</a> , <a href="#">AB10</a> or <a href="#">AB15</a> ) |                     |                     |                     |                     |                     |                     |                     |
|                                                   | Agency Approvals                                                                                                                                                   |                     |                     |                     |                     |                     |                     |                     |
| Certification                                     | UL, cUL, CE                                                                                                                                                        |                     |                     |                     |                     |                     |                     |                     |
|                                                   | Mechanical                                                                                                                                                         |                     |                     |                     |                     |                     |                     |                     |
| Wire Connection Type                              | Screw terminals                                                                                                                                                    |                     |                     |                     |                     |                     |                     |                     |
| Wire Gauge (Solid or Stranded)                    | 18AWG to 12AWG (0.8 mm <sup>2</sup> - 3.3 mm <sup>2</sup> ). 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]                                                                                                                                             |                     |                     |                     |                     |                     |                     |                     |

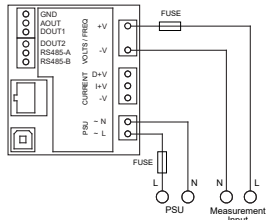
# Trumeter ADM200 Series Multimeters



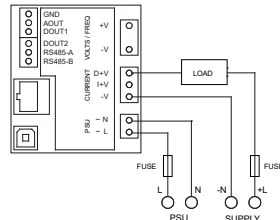
## Wiring Diagrams (ADM-200-H)

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

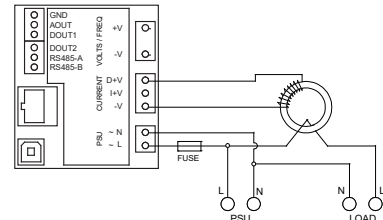
VOLT / FREQUENCY MEASUREMENT



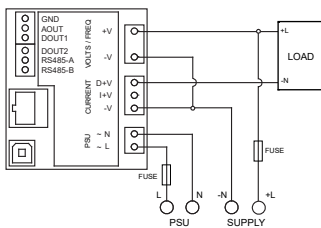
AC/DC CURRENT MEASUREMENT SERIES LOAD (MAX 5A)



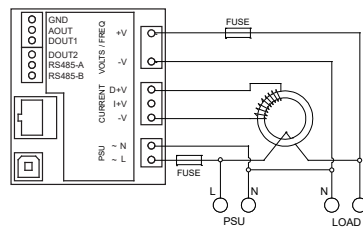
AC CURRENT MEASUREMENT USING CT (5A MAX)



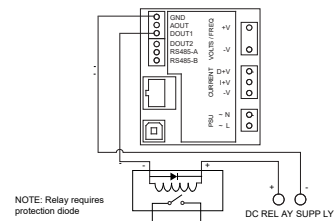
AC/DC POWER MEASUREMENT SERIES LOAD (5A MAXIMUM)



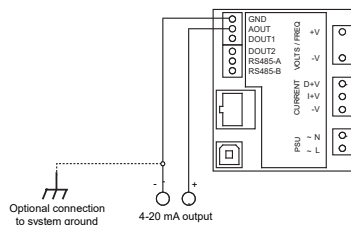
AC POWER MEASUREMENT WITH A CT



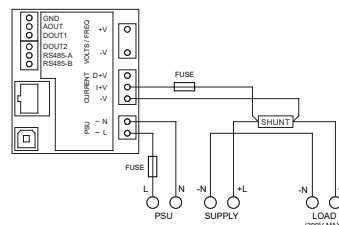
RELAY OUTPUT



4-20mA ANALOG OUTPUT

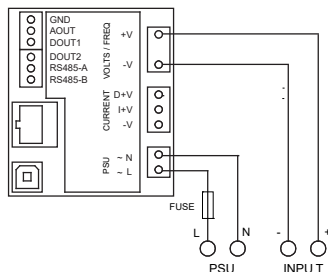


AC/DC CURRENT MEASUREMENT USING SHUNT (MAX 500mV)

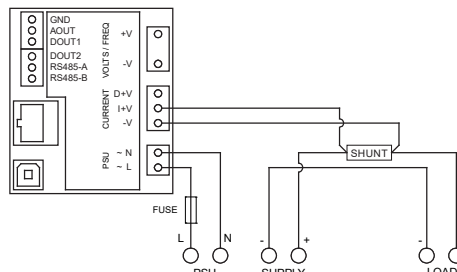


## Wiring Diagrams (ADM-200P-H)

DC VOLTAGE MEASUREMENT | AC FREQUENCY MEASUREMENT

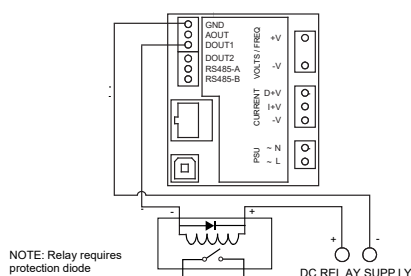


DC CURRENT MEASUREMENT USING SHUNT (500mV MAX)

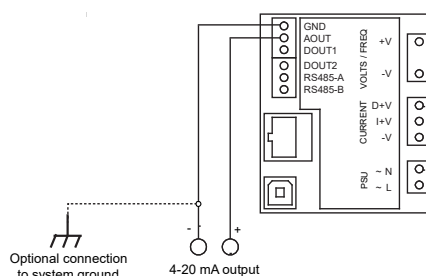


All fuses must be 0.5A / 250V Type F (fast acting fuse) with a breaking capacity of 35A or greater.

RELAY OUTPUT (ACTIVATED BY DOUT1)



4-20mA ANALOG 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.***

