

# Trumeter ADM100 Series Power Meter

## For industrial power monitoring applications

**NEW** digital output delays

**NEW** 10 alarm set points

**NEW** 20-point non-linearization scaling

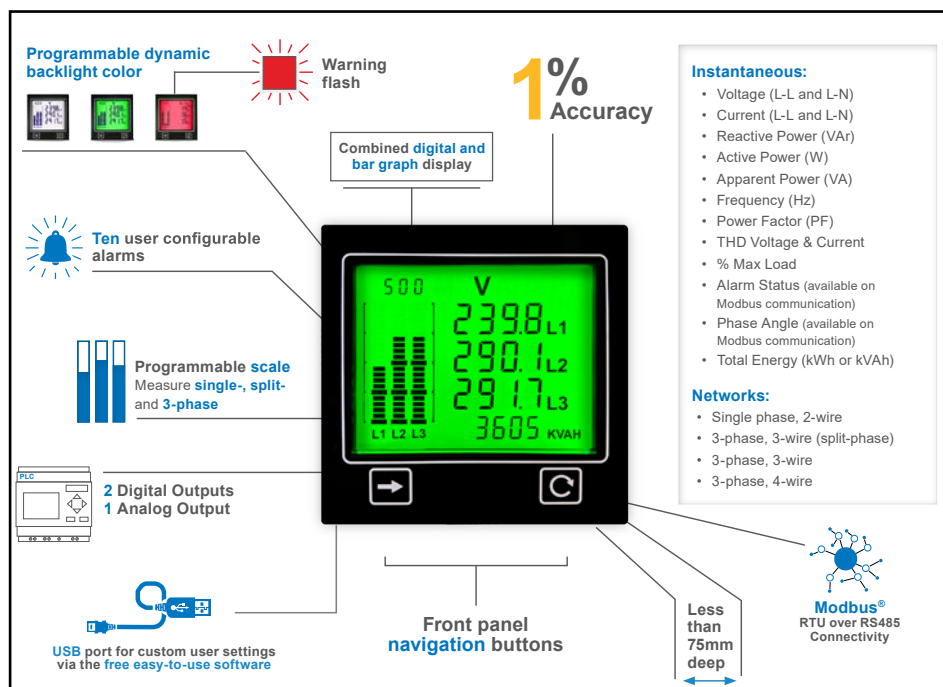
Trumeter ADM Series Power Meters feature an acclaimed easy-to-read display and a versatile set of inputs, making them ideal for single phase, split-phase and 3-phase power monitoring applications.

The programmable scale and custom annunciators allow users to tailor the meter to display critical parameters exactly as desired. In addition, dynamic backlighting, in conjunction with setpoints, alerts operators visually when a parameter is out of range. These meters also feature 2 digital outputs and 1 analog 4-20mA output which can be used to control other systems in the process. The ADM Power Meter is much more than just a display.

Trumeter's innovative technology brings a greater level of accuracy to the ADM range through input signal optimization. By using this technology, accuracy of 1% or better is now achieved, allowing for more precise measurement, display and control.



**ADM100W-HPS**



## Overview

### Voltage Input

- 0-600 VAC (L-L)
- 10-300 VAC (L-N)
- Accuracy: 1% (THD 5%) of full scale

### Current Input

- 0-5A
- Accuracy: 1% (THD 5%) of full scale

### Outputs

- Max voltage: 24VDC
- Max current: 15mA
- Analog: 4-20 mA
- 2 Digital Outputs

### Power Supply

- Nominal input: 100-277 VAC

### Free Configuration Utility Download

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

### Display Options

- Red, Green, or White

### 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

## Key features

- For single-, split- and 3-phase applications.
- Measures Active (W), Reactive (var) and Apparent (VA) power.
- Displays electrical parameters on large, backlit LCD display.
- Features two independent opto-isolated digital outputs plus one analog 4-20mA output.
- Includes MODBUS® RTU communication as standard.
- Provides clear indication of electrical circuit performance.
- User-programmable scale and custom alarm messages display critical parameters and immediately alerts operators when a parameter is out of range.
- Programmable Current Transformer (CT) and Potential Transformer (PT) ratios.

# Trumeter ADM100 Series Power Meter



## Trumeter ADM Series Power Meter Selection Guide

Part Number	Price	Description	Drawing
<a href="#">ADM100W-HPS</a>	\$05zng:	Trumeter ADM100 standard graphical power meter, current or voltage input, 3in positive backlit LCD configurable to white, green, red, (2) discrete or current outputs, 100-277 VAC operating voltage, Modbus RTU.	<a href="#">PDF</a>

## Trumeter ADM Series Power Meter Specifications

<b>Part Number</b>	<b>ADM100W-HPS</b>
<b>Modbus Communication</b>	RTU
	<b>Power Supply</b>
<b>Input</b>	100-277 VAC
<b>Power Consumption</b>	2W
<b>Supply Frequency</b>	50-60 Hz
	<b>Voltage Input</b>
<b>Range</b>	0-600 VAC (L-L) 10-300 VAC (L-N)
<b>Impedance</b>	100KΩ
<b>Accuracy</b>	1%
<b>Frequency</b>	45-65 Hz
	<b>Current Input</b>
<b>Range</b>	0-5A (CT Only)
<b>Impedance</b>	15Ω
<b>Accuracy</b>	1%
	<b>Display</b>
<b>User Configurable Backlight Colors</b>	Red, Green, White
<b>Positive/Negative LCD</b>	Positive
<b>Readout Text Character Size</b>	3 Rows, 4 Digits, 0.29 in [7.5mm]
<b>Message Text Character Size</b>	6 Characters,
<b>Bar Graph</b>	20 segments per phase, 0.29 in [7.5mm]
	<b>Environmental</b>
<b>Operating Temperature</b>	14 to 122°F [-10 to 50°C]
<b>Storage Temperature</b>	-40 to 158°F [-40 to 70°C]
<b>IP Rating (from the front)</b>	IP65, NEMA type 4 and NEMA type 12
	<b>Analog Outputs (1)</b>
<b>Analog Output</b>	4-20 mA
<b>Accuracy</b>	0.5%
<b>Resolution</b>	0.02 mA
	<b>Open Collector Outputs (2)</b>
<b>Max Voltage</b>	24VDC
<b>Max Current</b>	15mA
	<b>Programming</b>
<b>Programming Port</b>	USB 2.0 (A-Male to Mini-B, sold separately – MOSAIC-CSU)
	<b>Agency Approvals</b>
<b>Certification</b>	UL file # E469787, CE
	<b>Mechanical</b>
<b>Wire Connection Type</b>	Screw terminals
<b>Wire Gauge (Solid or Stranded)</b>	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]
<b>Weight</b>	6.35 oz (180g)
<b>Mounting Clips Screw Torque</b>	< 0.4 N•m [3.54 lb•in]

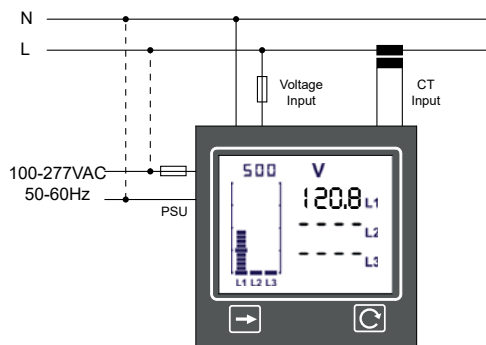
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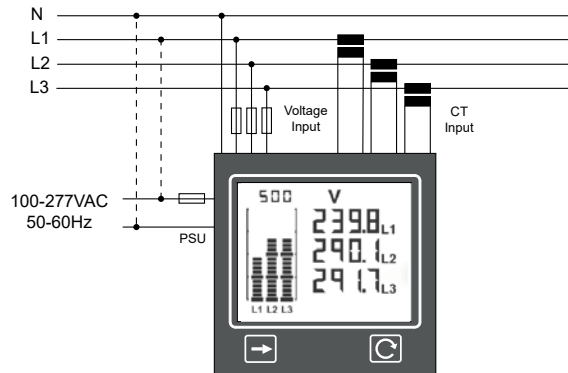
## Wiring Diagrams

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

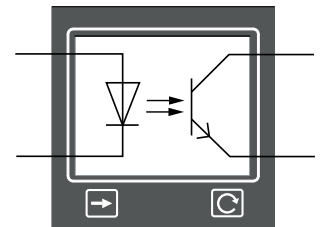
**Single phase 2-wire  
(1P2W)**



**3 phase 3-wire  
(3P3W)**



**Control Outputs**



## Easy-To-Use Configuration Tool

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

