

PowerView® Gages

PVM Series

The PowerView PVM Series Gages are intelligent gages designed to display easy-to-read information transmitted by PowerView. The PVM gages communicate with PowerView via a single RS485 twisted pair MODBUS RTU serial link. The gages can be daisy-chained using quick-connect harnesses.

The major feature of the PVM gage is its balance between design and functionality. These modern gages offer a selection of lens and bezel styles and colors.

The PVM gages also include features such as a smooth stepper motor operation for the 270° sweep pointer, an environmentally sealed case with two Amp Mini Universal Mate-N-Lok connectors molded into the casing, and green LED backlighting. They are available for standard 2-1/16" (52mm) and 3-3/8" (86mm) diameter hole sizes. Their plastic cases incorporate a D shape allowing panel cutouts that eliminate gage rotation during installation.

Features

- For modern electronic engines and equipment using SAE J1939 Controller Area Network
- Display SAE J1939 parameters broadcast by the PowerView system
- Cutting-edge, stepper motor technology and robust functionality combined
- Microprocessor-driven for high accuracy
- Simple installation and wiring design

Specifications

PV101 Compatibility

Maximum supported: 5 PVM gages

Maximum distance to last gage: 8.5 meters

Power Supply Input Voltage: 5V (4.5-5, 5.5 VDC minimum & maximum voltage)

Power Supply Operating Current (@ 5 VDC): PVM20, PVM35: 18 mA minimum; 80 mA maximum

Backlight Maximum Current: 60 mA

Input: RS485 MODBUS RTU data

Output: Analog readout

Environmental

Operating Temperature: -40° to 185° F (-40° to 85° C)

Storage Temperature: -67° to 185° F (-55° to 85° C)

Environmental Sealed Enclosure:

Sealing: IP68, ±5PSI (±34.4 kPa)

Case and Clamp Material: Polyester (PBT)

Lens Material: Polycarbonate

Bezel Material: Polyester (PBT)



PVM20 Series

- PVM20-A - Engine Oil Pressure
- PVM20-B - Coolant Temperature
- PVM20-C - Voltmeter
- PVM20-D - Percent Load at current RPM
- PVM20-E - Transmission Oil Pressure
- PVM20-F - Transmission Oil Temperature
- PVM20-G - Engine Oil Temperature
- PVM20-H - Hydraulic Oil Temperature
- PVM20-J - Percent Fuel Level
- PVM20-K - Boost Pressure
- PVM20-L - Exhaust Gas Temperature
- PVM20-M - Intake Manifold Temperature
- PVM20-N - Auxiliary Temperature
- PVM20-P - Auxiliary Pressure
- PVM20-T - Tachometer

PVM35 Series

- PVM35-T - Tachometer
- PVM35-S - Speedometer

Dial: White numerals over black background

Return-to-Zero Needle Movement: Not available for PVM20 models

Indicating Pointer: Stepper motor operation with 270° sweep

Gage Accuracy: Better than ±1.0% of scale

Maximum Panel Thickness: 3/8 in. (9.6 mm)

Connectors:

Amp Mini Universal Mate-N-Lok

Amp Plug P/N: 172338-1

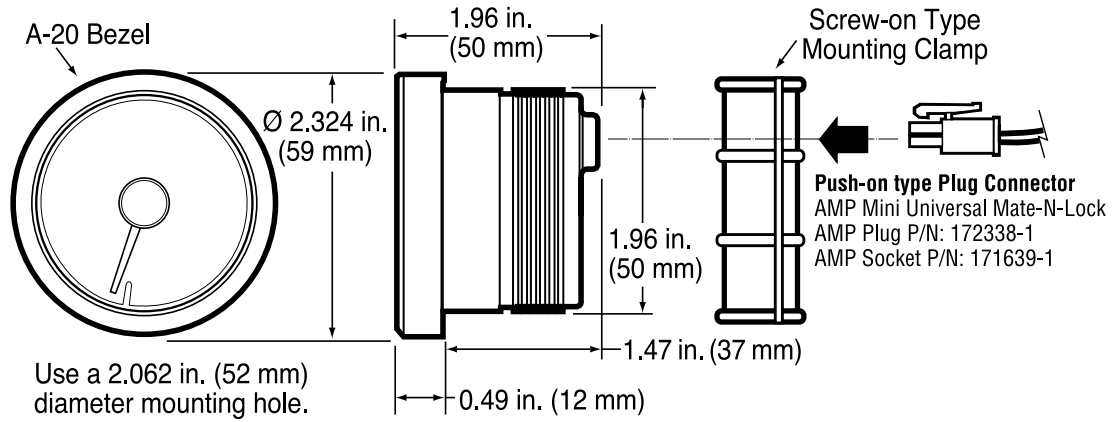
Amp Socket P/N: 171639-1

Shipping Weight: 1 lb. (450 g)

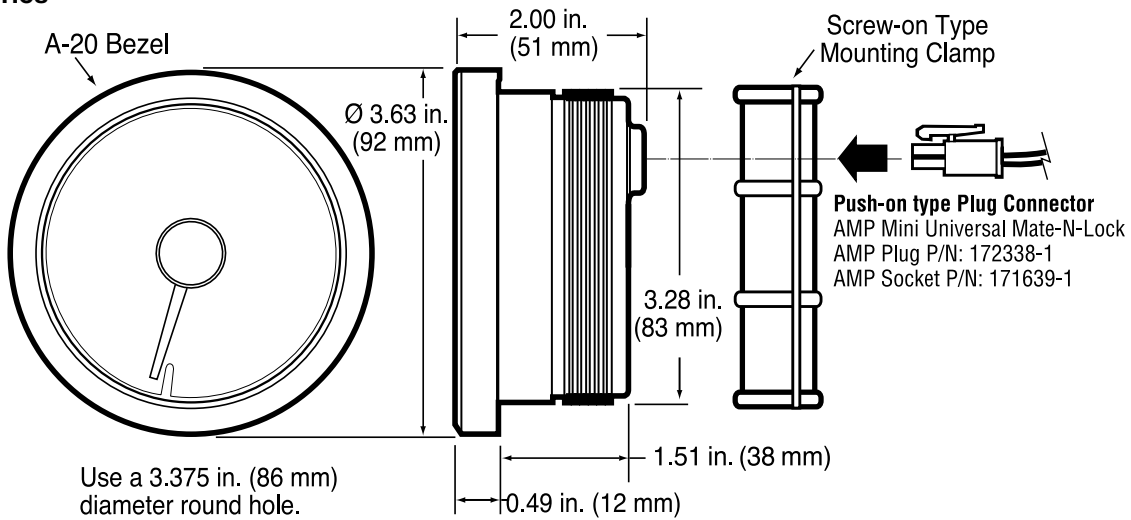
Shipping Dimensions: 6 x 6 x 6 in. (153 x 153 x 153 mm)

Typical Gage Dimensions

PVM20 Series



PVM35 Series



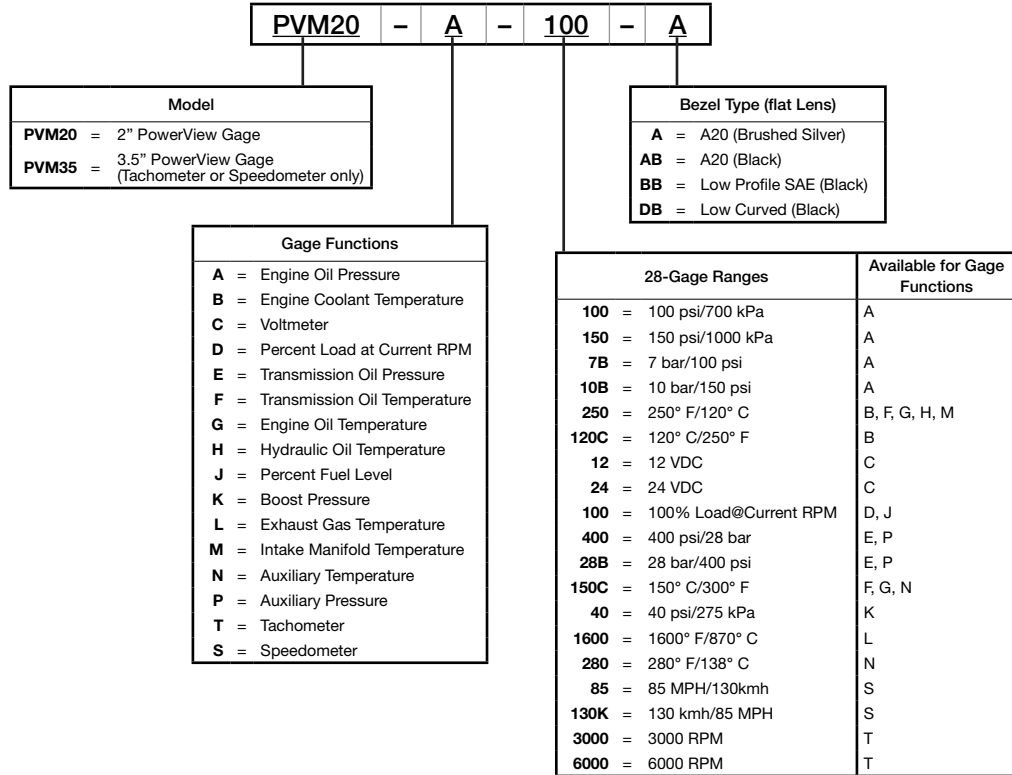
Bezel Styles

PVM20 Series and PVM35 Series

AB A-20 Style	A A-20 Style	BB Low Profile SAE Style	DB Low Curved Style

How to Order

Options listed below. All configurations may not be available. Call your sales representative or Enovation Controls for more information.



Wiring Harnesses and Accessories

For details see bulletin 0710179 - Wiring Harness Accessories for PVM Gages

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