

PowerView™ PVM Series Gages



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

The PowerView PVM Series gages are intelligent gages designed to display easy-to-read information transmitted by the PowerView. The PVM gages communicate with the 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 gages is their balance between design and functionality. These modern gages offer a selection of bezel styles and colors shown on page 3 of this document.

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 back lighting. They are available for standard 2-1/16 in. (52 mm) and 3-3/8 in. (86 mm) diameter hole sizes. In addition their plastic cases incorporate a “D” shape allowing panel cutouts that eliminate gage rotation during installation.

PVM20 Series Models

- 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 Models

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

In order to consistently bring you the highest quality, full featured products, we reserve the right to change our specifications and designs at any time. MURPHY, the Murphy logo, MurphyLink™ and PowerView™ are registered and/or common law trademarks of Murphy Industries, Inc. This document, including textual matter and illustrations, is copyright protected by Murphy Industries, Inc., with all rights reserved. (c) 2007 Murphy Industries, Inc.

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 VDC minimum & maximum voltage)

Power Supply Operating Current (@ 5 VDC) =

- PVM20, PVM35: 18 mA minimum; 80 mA maximum

Backlight Maximum Current: 60mA

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, ±5 PSI (± 34.4 kPa)
- Case and Clamp Material: Polyester (PBT)
- Lens Material: Polycarbonate
- Bezel Material: Polyester (PBT)

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 inch (9.6 mm)

Connectors:

- Amp Mini Universal Mate-N-Lok
- Amp Plug P/N: 172338-1
- Amp Socket P/N: 171639-1

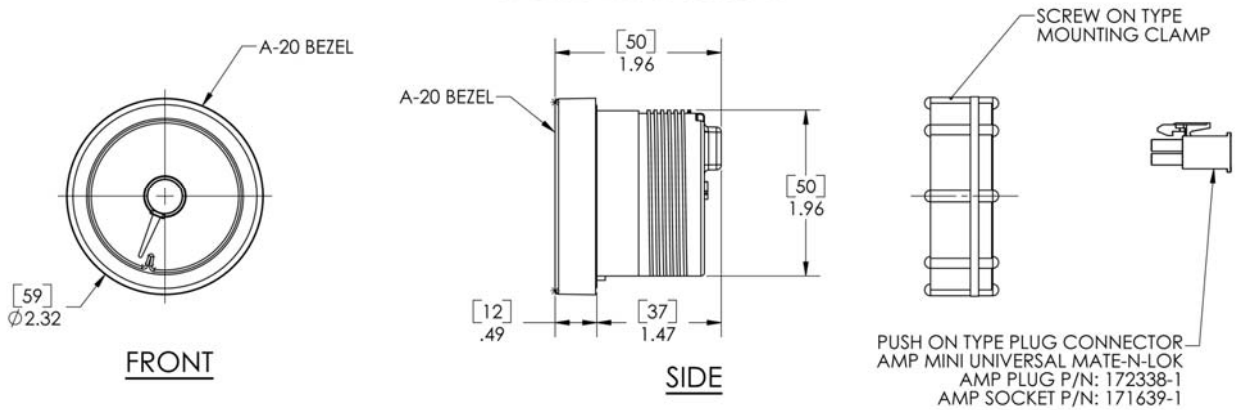
Shipping Weight: 1 Lb. (450 g.)

Shipping Dimensions:

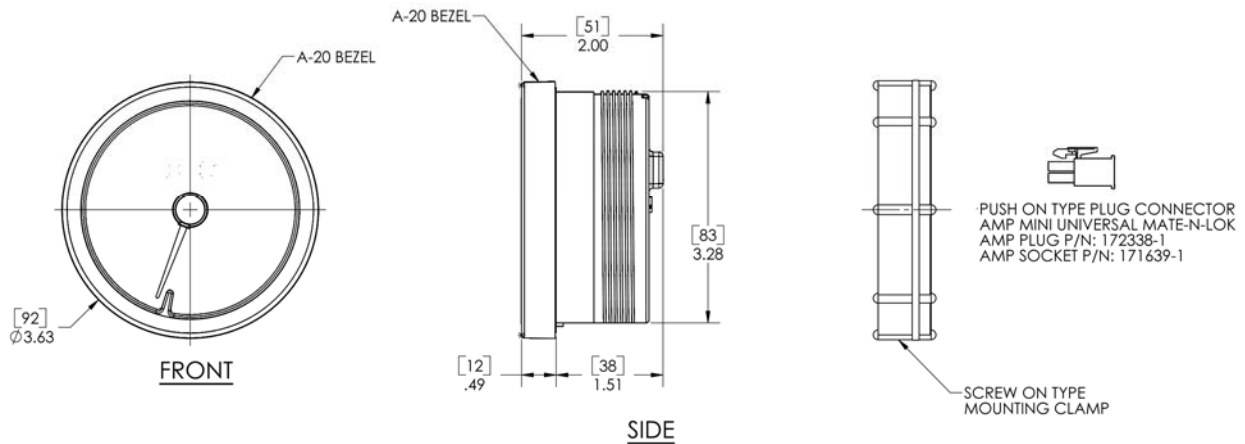
- 6 x 6 x 6 in. (153 x 153 x 153 mm)

Typical Gage Dimensions

PVM20 Series



PVM35 Series











Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to www.fwmurphy.com/support/warranty.htm

Bezel Styles

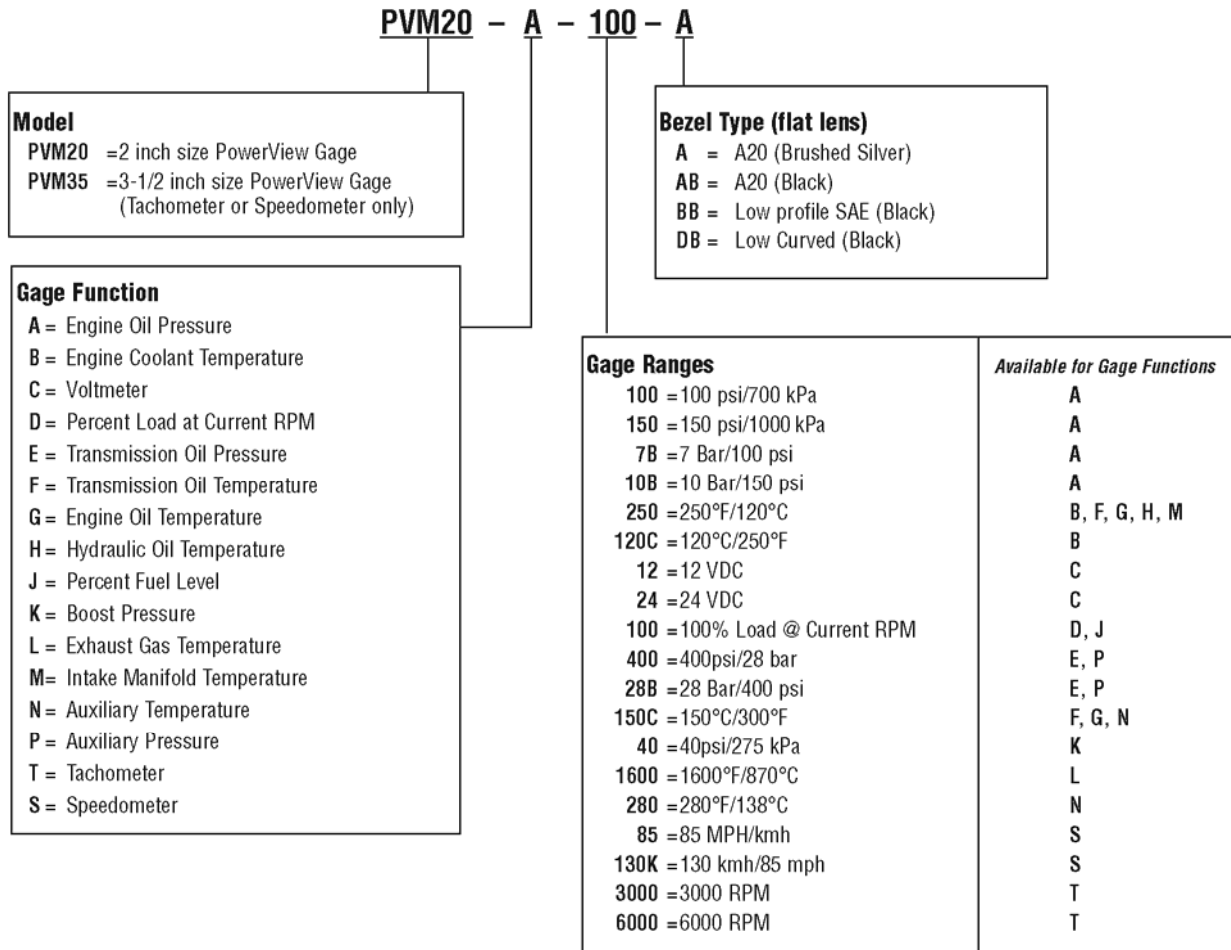
PVM20 Series – 2 inch size gages

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

PVM35 Series – 3-1/2 inch size gages

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

How to Order



Wiring Harnesses and Accessories

For details see bulletin "0710179 – Wiring Harness Accessories for PVM Gages".

FW MURPHY

P.O. Box 470248
 Tulsa, Oklahoma 74147 USA
 +1 918 317 4100 Fax: +1 918 317 4266
 E-mail: sales@fwmurphy.com

INDUSTRIAL PANEL DIVISION

Fax: +1 918 317 4124
 E-mail: ipdsales@fwmurphy.com

MURPHY POWER IGNITION

Web site: www.murphy-pi.com

www.fwmurphy.com

CONTROL SYSTEMS & SERVICES DIVISION

P.O. Box 1819
 Rosenberg, Texas 77471 USA
 Phone: +1 281 633 4500 Fax: +1 281 633 4588
 E-mail: sales@fwmurphy.com

FRANK W. MURPHY, LTD

Church Rd Laverstock
 Salisbury SP1 1GZ UK
 Phone: +44 172 241 0055 Fax: +44 172 241 0088
 E-mail: sales@fwmurphy.co.uk
 Web site: www.fwmurphy.co.uk

COMPUTRONIC CONTROLS, LTD

41 - 43 Railway Terrace Nechells
 Birmingham B7 5NG UK
 Phone: +44 121 327 8500 Fax: +44 121 327 8501
 E-mail: info@computroniccontrols.com
 Web site: www.computroniccontrols.com

FW MURPHY INSTRUMENTS (HANGZHOU) CO. LTD

77 23rd Street
 Hangzhou Economic & Technological Development Area
 Hangzhou, Zhejiang 310018 China
 Phone: +86 571 8788 6060 Fax: +86 571 8684 8878



Printed in U.S.A.

Free Manuals Download Website

<http://myh66.com>

<http://usermanuals.us>

<http://www.somanuals.com>

<http://www.4manuals.cc>

<http://www.manual-lib.com>

<http://www.404manual.com>

<http://www.luxmanual.com>

<http://aubethermostatmanual.com>

Golf course search by state

<http://golfingnear.com>

Email search by domain

<http://emailbydomain.com>

Auto manuals search

<http://auto.somanuals.com>

TV manuals search

<http://tv.somanuals.com>