

PowerView[™] Analog Gages - PVA Series



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 Analog Gages (PVA)** are a series of intelligent gages designed to display easy-to-read information transmitted by the PowerView. The PVA 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 with watertight connectors.

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

The PVA gages also include features such as a smooth stepper motor operation for the 270°sweep pointer, an environmentally sealed case with two Deutsch DT style connectors molded into the case, and green LED back lighting. They are available for standard 2-1/6" (52mm) and 3-3/8" (86mm) diameter mounting hole sizes. In addition, their polycarbonate/polyester alloy cases incorporate a "D" shape allowing panel cutouts that eliminate gage rotation during installation.

The **PowerView Audible Alarm (PVAA)** alerts operators to fault conditions via piezoelectric alarm and relay contacts. It also has a temporary silencer button that silences the audible tone for 2 minutes on warnings and 30 seconds on shutdown conditions. All PowerView gages can be powered by 12 or 24 VDC systems.

Specifications

Power Supply Input: 12/24V (8-32VDC min/max voltage)

Power Supply Operating Current: (@ 14VDC) =

- PVA20, PVA35: 28 mA minimum: 52 mA maximum
- PVAA20: 19 ma minimum; 46 mA maximum
 Backlight Maximum Current: 24 mA (Not valid

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PVAA20)

Input: RS485 MODBUS® RTU Data

Output: Analog readout

Operating Temperature: -40°F to 185°F (-40°C to 85°C) **Storage Temperature**: -76°F to 185°F (-60°C to 85°C)

Dial: White text over black background

Indicating Pointer: Stepper motor Operation with 270

sweep

Gage Accuracy: Better than ± 1% of full scale

Environmentally Sealed Enclosure:

- **Sealing**: IP68, ±5 psi (±34.4 kPa)
- Case Materials: Polycarbonate/Polyester (PC+PBT)
- Clamp Materials: Polyester (PBT)
- Lens Material: Polycarbonate
- Bezel Material: ABS

Maximum Panel Thickness: 3/8 inch (9.6mm)

Connectors: 6-pin Deutsch DT06 Series

The following items apply only to PVAA20

Sound Output Level: 90 dB @ 30cm

Relay Rated Load: 0.5A, 125VAC: 1A, 24VDC

Relay Maximum Switching Capacity: 62.5VA, 30W External Audible Alarm Output: 28VDC, 30 mA maxi-

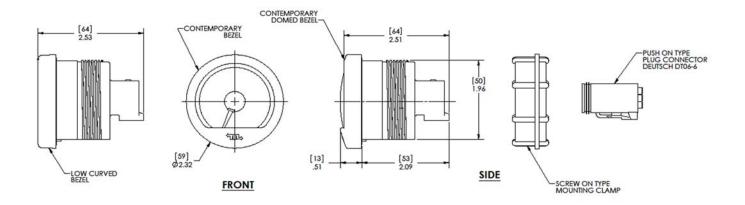
mum current sink

Temporary Silence Button: Charge transfer technology

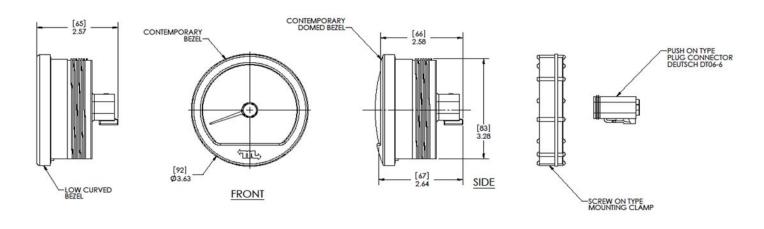


Warranty - A limited warranty on materials and workmanship is given with this FW Murphy product. A copy of the warranty may be viewed or printed by going to http://www.fwmurphy.com/warranty

PVA20/PVAA20 Series - Typical Gage Dimensions



PVA35 Series - Typical Gage Dimensions



PVA20 Series Models - 2 inch size gages

PVA20-A = Engine Oil Pressure

PVA20-B = Coolant Temperature

PVA20-C = Voltmeter

PVA20-D = Percent Load at Current RPM

PVA20-E = Transmission Oil Pressure

PVA20-F = Transmission Oil Temperature

PVA20-G = Engine Oil Temperature

PVA20-H = Hydraulic Oil Temperature

PVA20-J = Percent Fuel Level

PVA20-K = Boost Pressure

PVA20-L = Exhaust Gas Temperature

PVA20-M = Intake Manifold Temperature

PVA20-N = Auxiliary Temperature

PVA20-P = Auxiliary Pressure

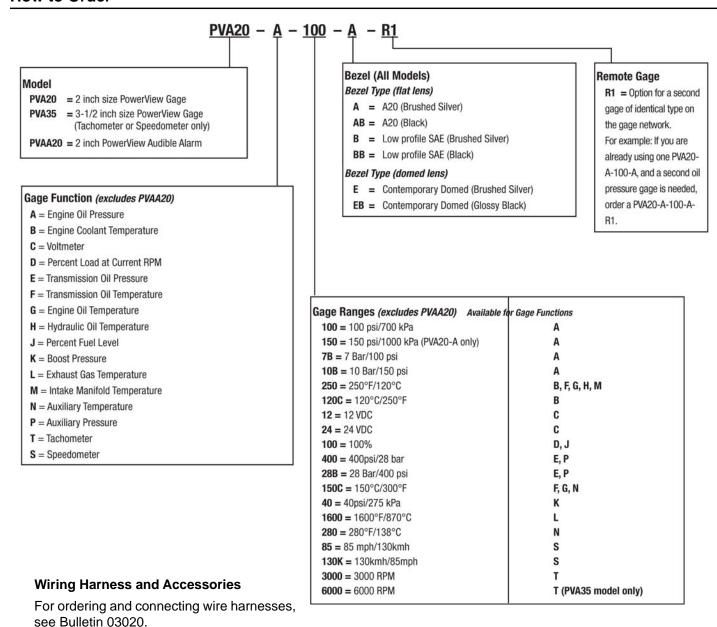
PVA20-T = Tachometer

PVAA20 = Audible Alarm

PVA35 Series Models - 3 1/2 inch size gages

PVA35-T = Tachometer

PVA35-S = Speedometer



Shipping Weight All Models: 1 lb. (450 g)

Shipping Dimensions All Models: 6x6x6 inches (153x153x153 mm)

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