

PowerView[™] - PVCAN20 & PVCAN35 Series Gages – Installation Instructions



Features

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

The PowerView CAN (PVCAN) series is a line of intelligent gages designed for easy-to-read analog display of CAN SAE J1939 engine and equipment data. These gages are designed to be wired directly to the J1939 CAN bus, without the need of an intermediate device or interface. Features include smooth stepper motor operation for the 270-degree sweep pointer, and green LED backlighting that can be dimmed using an analog potentiometer or a CAN command.

PVCAN gages are available in several silver or black bezel styles, with flat or domed lenses, for standard 2 1/6-inch (52mm) and 3 3/8-inch (86mm) diameter cutout sizes. The environmentally sealed polycarbonate/polyester case incorporates molded Deutsch DT-style connectors, a quick-fit screw clamp and a D-shaped section for panel cutouts that eliminate gauge rotation during installation.

All PowerView gages can be powered by 12- or 24-VDC systems.

PVCAN20 Series Models: 2 inch size gages

More gage options may be available; call Enovation Controls for more information on specific gages not shown.

PGN	Model	Description	
65263	PVCAN20-A	Engine Oil Pressure	
65262	PVCAN20-B	Coolant Temperature	
65271	PVCAN20-C	Voltmeter	- 12/24: SPN 158
			- 12C/24C: SPN 168
61443	PVCAN20-D	Percent Load at Current RPM	
65272	PVCAN20-E	Transmission Oil Pressure	
65272	PVCAN20-F	Transmission Oil Temperature	
65262	PVCAN20-G	Engine Oil Temperature	
65128	PVCAN20-H	Hydraulic Oil Temperature	
65276	PVCAN20-J	Percent Fuel Level	

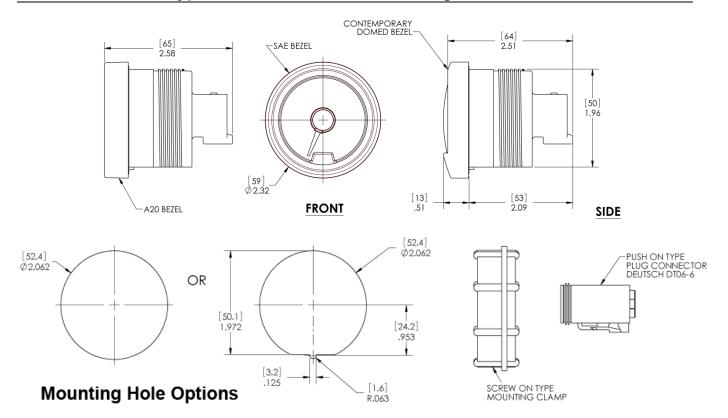
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PGN	Model	Description		
65270	PVCAN20-K	Boost Pressure		
65270	PVCAN20-L	Exhaust Gas Temperature		
65270	PVCAN20-M	Intake Manifold Temperature		
61444	PVCAN20-T	Tachometer		
65110	PVCAN20-BA	DEF Level		

PVCAN35 Series Models: 3.5 inch size gages

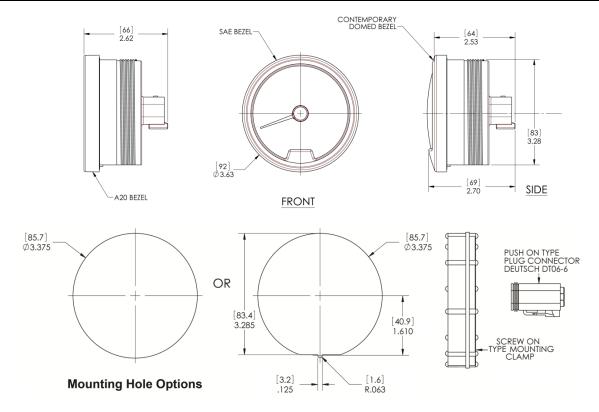
PGN	Model	Description
61444	PVCAN35-T	Tachometer
65265	PVCAN35-S	Speedometer

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PVCAN20 Series Typical Installation and Mounting Dimensions

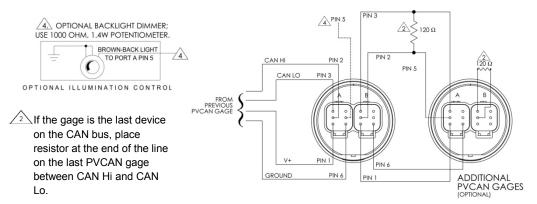


PVCAN35 Series Typical Installation and Mounting Dimensions

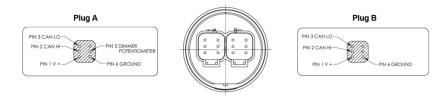


PVCAN20 Gages - Back View and Typical Connectors PIN Designation

PVCAN20 Gages Back View

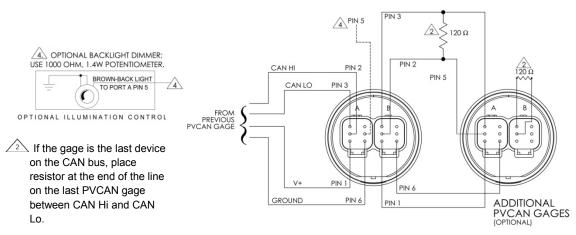


PVCAN20 Gages Typical Connectors PIN Designation

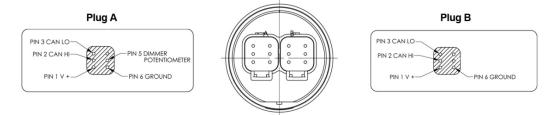


PVCAN35 Gages - Back View and Typical Connectors PIN Designation

PVCAN35 Gages Back View



PVCAN35 Gages Typical Connectors PIN Designation



Specifications

Power Supply Input Voltage	Dial: White numerals over black background
12/24V (8-32VDC min. and max. voltage)	Output: Analog Readout
Power Supply Operating Current	Indicating Pointer: Stepper motor operation with 270°
Typically 70mA	sweep
Backlight Maximum Current (not applicable to	Gage Accuracy: Better than +/- 1% of full scale
PVCAN20) : 45mA	Environmentally Sealed Enclosure:
Analog Input Backlight Dimmer: Use 1000 OHM,	Environmental Sealing: IP68, ±5 PSI (± 34.4 kPa)
1.4W Potentiometer	Case Material: Polycarbonate/Polyester (PC+PBT)
Backlight Control VIA J1939:	Clamp Material: Polyester (PBT) Lens Material: Polycarbonate Bezel Material: ABS Maximum Panel Thickness: 3/8 in (9.6mm)
Default PGN: 0xFFFE	
1 st Byte: 0x5A (Murphy ID)	
2 nd Byte: 0x01 (Command Byte)	
3 rd Byte: 0x00 to 0x64 (0-100%)	Connectors: 6-Pin Deutsch DT06 Series
4 th -8 th Bytes: 0xFF	Electromagnetic Compatibility: 2004/108/EC
Operating Temperature: -40°C to 85°C (-40°F to 185°F)	y,
Storage Temperature: -60°C to 85°C (-76°F to 185°F)	

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Printed in the USA