

PowerView™ CAN Gages



Features

- For modern electronic engines and equipment using 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
- No driving device required

The **PowerView CAN Gages (PVCAN)** are a series of intelligent gages designed to display easy-to-read information broadcast over the SAE J1939 communications. These gages are designed to be wired directly to the J1939 CAN bus without the need of another device driving them.

The PVCAN gage 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 hole sizes. In addition, their polycarbonate/polyester alloy cases incorporate a "D" shape allowing panel cutouts that eliminate gage rotation during installation.

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

PVCAN Series Models: 2 inch size gages

- PVCAN20-A = Engine Oil Pressure
- PVCAN20-B = Coolant Temperature
- PVCAN20-BA = DEF Level
- PVCAN20-BB = DEF Soot Level
- PVCAN20-C = Voltmeter
- PVCAN20-D = Percent Load at Current RPM
- PVCAN20-E = Transmission Oil Pressure
- PVCAN20-F = Transmission Oil Temperature
- PVCAN20-G = Engine Oil Temperature
- PVCAN20-H = Hydraulic Oil Temperature
- PVCAN20-J = Percent Fuel Level
- PVCAN20-K = Boost Pressure
- PVCAN20-L = Exhaust Gas Temperature
- PVCAN20-M = Intake Manifold Temperature
- PVCAN20-N = Auxiliary Temperature
- PVCAN20-P = Auxiliary Pressure
- PVCAN20-T = Tachometer

PVCAN Series Models: 3.5 inch size gages

- PVCAN35-T = Tachometer
- PVCAN35-S = Speedometer

More gage options may be available. Call F.W. Murphy for more information on specific gages not shown.

Specifications

Power Supply Input Voltage:

12/24V (8-32VDC Minimum and Maximum Voltage)

Power Supply Operating Current:

Typically 70mA

Backlight Maximum Current: 45mA

Input: CAN (SAE J1939)

Operating Temperatures:

-40°F to 185°F (-40°C to 85°C)

Storage Temperatures:

-76°F to 185°F (-60°C to 85°C)

Dial:

White numerals over black background

Gage Accuracy:

Better than ±1% of full scale

Environmentally Sealed Enclosure:

IP68: ±5PSI (±34.4kPa).

Case Material: Polycarbonate/Polyester (PC+PBT)

Clamp Material: Polyester (PBT)

Lens Material: Polycarbonate

Bezel Material: ABS

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

Connectors: 6-Pin Deutsch DT06 Series

A-20 Style

Low Profile SAE Style

Contemporary Domed Bezel and Lens Style

PVCAN20 Series - 2 inch Size Gages

AB Bezel Type



A Bezel Type

BB Bezel Type



B Bezel Type

EB Bezel Type



E Bezel Type

PVCAN35 Series - 3-1/2 inch Size Gages

AB Bezel Type



A Bezel Type

BB Bezel Type



B Bezel Type

EB Domed Bezel and Lens Type



E Bezel Type

How to Order

PVA20 - A - 100 - A

Model

PVA20 = 2 inch size PowerView Gage
PVA35 = 3-1/2 inch size PowerView Gage
 (Tachometer or Speedometer only)

Gage Function (excludes PVAA20)

A = Engine Oil Pressure
B = Engine Coolant Temperature
BA = % Diesel Exhaust Fluid (DEF) Level
BB = % Diesel Particulate Filter (DEF) Soot Level
C = Voltmeter
D = Percent Load at Current RPM
E = Transmission Oil Pressure
F = Transmission Oil Temperature
G = Engine Oil Temperature
H = Hydraulic Oil Temperature
J = Percent Fuel Level
K = Boost Pressure
L = Exhaust Gas Temperature
M = Intake Manifold Temperature
N = Auxiliary Temperature
P = Auxiliary Pressure
T = Tachometer
S = Speedometer

Bezel (All Models)

Bezel Type (flat lens)

A = A20 (Brushed Silver)
AB = A20 (Black)
B = Low profile SAE (Brushed Silver)
BB = Low profile SAE (Black)

Bezel Type (domed lens)

E = Contemporary Domed (Brushed Silver)
EB = Contemporary Domed (Glossy Black)

Gage Ranges Available for Gage Functions

100 = 100 psi/700 kPa
150 = 150 psi/1000 kPa (PVCAN20-A only)
7B = 7 Bar/100 psi
10B = 10 Bar/150 psi
250 = 250°F/120°C
120C = 120°C/250°F
12 = 12 VDC
24 = 24 VDC
100 = 100%
400 = 400 psi/28 bar
28B = 28 Bar/400 psi
150C = 150°C/300°F
40 = 40psi/275 kPa
1600 = 1600°F/870°C
280 = 280°F/138°C
85 = 85 mph/130 kmh
130K = 130 kmh/85 mph
3000 = 3000 RPM
6000 = 6000 RPM

A
A
A
A
B, F, G, H, M
B
C
C
D, J
E, P
E, P
F, G, N
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T (PVCAN35 model only)

Accessories

Part Number	Model	Description
78000761	CANJR	Terminating Resistor
78000745	CANW-J-9	9" Jumper Harness*
78000746	CANW-J-12	12" Jumper Harness*
78000747	CANW-J-24	24" Jumper Harness*
78000748	CANW-J-36	36" Jumper Harness*
78000124	PVW-P-12	12" Power/CAN Harness

* According to recommended SAE J1939 wiring practices, any device on the CAN bus should be noded into the bus with a distance of no more than 1 meter.



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