PowerView® CAN Gages

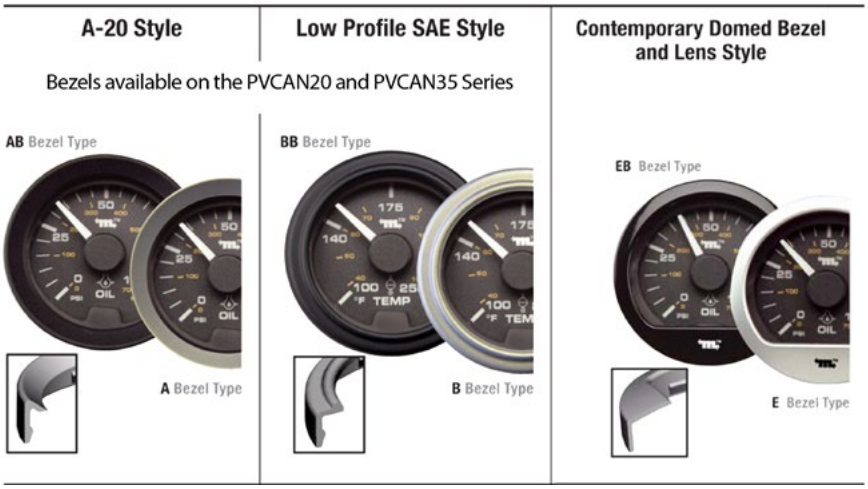
The PowerView CAN Gages (PVCAN) are a series of intelligent gages designed to display easy-to-read information broadcast over the SAE J1939 communications. These gages are designed to be wired directly to the J1939 CAN bus without the need of another device driving them.

The PVCAN gage includes features such as a smooth stepper motor operation for the 270-degree sweep pointer, an environmentally sealed case with two Deutsch DT style connectors molded into the case and green LED backlighting.

They are available for standard 2 1/16-inch (52 mm) and 3 3/8-inch (86 mm) diameter hole sizes. In addition, its 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.

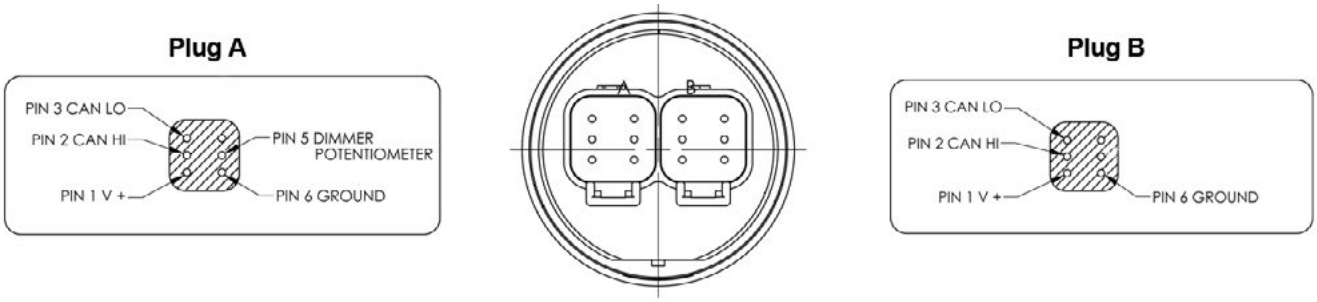
Styles



Specifications

Power Supply Input Voltage: 12/24 V (8-32 VDC Minimum and Maximum Voltage)
Power Supply Operating Current: Typically 70 mA
Backlight Maximum Current: 45 mA
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. (9.6 mm)
Connectors: 6-Pin Deutsch DT06 Series
Electromagnetic Compatibility:
Directive: **89/336/EEC**
Directive: **2004/108/EC**
European Harmonised standard:
EN 61000-6-3:2006
EN 61000-6-1:2005
Vibrations:
Random: 7.86 Grms (5-2,000 Hz), 3 axes
Shock: ±50 G, 3 axes

Pinout PVCAN 20 and PVCAN 30 Series



How To Order

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

PVCAN20 – A – 100 – A

Model	
PVCAN20	2” PowerView Gage
PVCAN35	3.5” PowerView Gage (Tachometer or Speedometer only)

Gage Functions	
A	Engine Oil Pressure
B	Engine Coolant Temperature
BA	% Diesel Exhaust Fluid (DEF) 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
T	Tachometer
S	Speedometer
SS	Shaft Speed

Bezel Type	
Flat Lens	
A	A20 (Brushed Silver)
AB	A20 (Black)
B	Low Profile SAE (Brushed Silver)
BB	Low Profile SAE (Black)
Domed Lens	
E	Contemporary Domed (Brushed Silver)
EB	Contemporary Domed (Glossy Black)

Gage Ranges		Available for Gage Functions
100	100 psi/700 kPa	A, BA
150	150 psi/1000 kPa (PVCAN20-A only)	A
7B	7 Bar/100 psi	A
10B	10 Bar/150 psi	A
250	250° F/120° C	B, F, G, H, M
120C	120° C/250° F	B
12	12 VDC	C
12C	12 VDC Cummins (SPN 168)	C
24	24 VDC	C
24C	24 VDC Cummins (SPN 168)	C
100	100% Load@Current RPM	D, J, BA
400	400 psi/28 bar	E
28B	28 bar/400 psi	E
150C	150° C/300° F	F, G
40	40 psi/275 kPa	K
1600	1600° F/870° C	L
85	85 mph/130kmh	S (PVCAN35 model only)
130K	130 kmh/85 mph	S (PVCAN35 model only)
3000	3000 rpm	T, SS (PVCAN35 model only)
6000	6000 rpm	T (PVCAN35 model only)

Part Number	Description	Notes
78000761	CANJR, Terminating Resistor	Accessories
78000745	CANW-J-9, 9” Jumper Harness*	
78000746	CANW-J-12, 12” Jumper Harness*	
78000747	CAN-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.