



# MURPHY®

by **ENOVATION** CONTROLS

## POWerview® GAUGES

PVCAN, PVA & PVM series

# EASY-TO-READ, SEALED GAUGES FOR CAN J1939 ELECTRONIC ENGINES



2 in. and 3.5 in. gauges for engines, vehicles & equipment

Analogue display of digital CAN SAE J1939 data

Microprocessor-based, smooth stepper motor technology

Environmentally sealed, impact resistant cases

Wide range of scale, bezel and lens options

Rapid-fit gauge clamp and wire harness system



For easy-to-read analogue indication of critical vehicle and equipment parameters, in a stylish yet durable package, choose Murphy PowerView gauges.

PV series gauges display CAN SAE J1939 data transmitted by the latest electronic engine and equipment ECUs. PVA and PVM gauges work in tandem with a PowerView display and RS485 network; PVCAN models operate by direct CAN connection, without any intermediate display or interface.

Stepper motor and microprocessor technology give clear, smooth and accurate indication. LED backlight brightness is adjustable by network command or potentiometer control. To fit with your control panel or

dashboard, PowerView gauges are available in a range of silver or black bezel styles, with flat or domed lenses, for standard 2 1/16 inch (52mm) or 3 3/8 inch (86mm) diameter cutout sizes. Installation and connection are both simple and secure, using spin-on fixing clamps and plug-and-go 4-wire power/data harnesses.

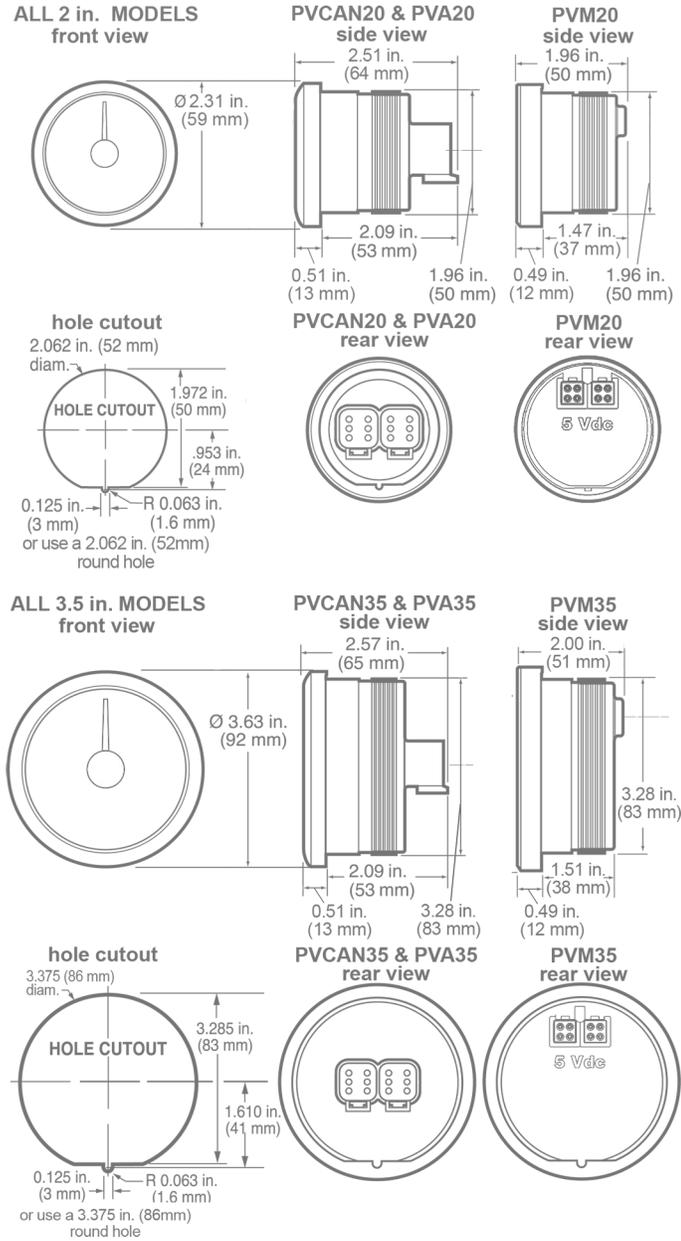
And like all Murphy equipment, durability is built in. All PowerView gauges feature IP68 front-face sealing as standard. Premium PVCAN and PVA gauges extend IP68 protection to the back face, connectors and wire harness system, enabling use in fully exposed locations.

For more on durability, features and model options, see our specifications over the page.

# POWerview® GAUGES

PVCAN, PVA & PVM series

## TYPICAL DIMENSIONS<sup>1</sup>



## FEATURES & SPECIFICATIONS

	PVCAN	PVA	PVM
<b>Electrical</b>			
Supply voltage	12/24 VDC (8-32V)		5 VDC (4.5-5.5V e.g. PVS-5)
Input	CAN J1939 direct connection	RS485 Modbus RTU (e.g. J1939 data via PowerView displays)	
Max. network length <sup>2</sup>	40m	>100m	8.5m
Max. gauges per network <sup>2</sup>		36	5
<b>Gauge face</b>			
Scale	white numerals over black background		
Indicating pointer	white, 270° sweep, stepper motor operation		
Accuracy	Better than 1.0% of full scale		
Return-to-zero needle movement	yes	PVM35: yes PVM20: no	
Backlight	green LED, dimmable by network command or potentiometer		
<b>Physical</b>			
Case/lens/bezel material	Polycarbonate (PC)/Polyester(PBT)/ABS		
Connectors	Deutsch DT06 series	AMP Mini Mate-N-Lok	
Environmental sealing	IP68 ±5 PSI (front & back)	IP68 ±5 PSI (front)	
Vibration	7.86 Grms, 5-2000Hz, 3-axis		
Shock	±50G, 3-axis		
Operating temperature	-40 to +85°C / -40 to +185°F		
<b>Options</b>			
Scale types <sup>3</sup>	<b>35 series:</b> tachometer, speedometer <b>20 series:</b> engine oil pressure, engine coolant temp, voltmeter, % load, transmission oil pressure, transmission oil temp, engine oil temp, hydraulic oil temp, fuel level, boost pressure, exhaust gas temp, intake manifold temp, aux. temp, aux. pressure		
Bezel types <sup>3</sup>	6	6	4
Audible alarm module	-	PVAA	-

### Notes:

- Dimensions may vary slightly with bezel/lens type.
- Maximum network length and gauge numbers may be lower, depending on network data speed and data/power loading.
- Not all combinations of scale and bezel type/colour options are available. Check with your Murphy or Enovation Controls representative.

**ENOVIATION CONTROLS CORPORATE HEADQUARTERS**  
 5311 S 122ND EAST AVENUE  
 TULSA, OK 74146

**ENOVIATION CONTROLS LTD. – UNITED KINGDOM**  
 CHURCH ROAD LAVERSTOCK  
 SALISBURY SP1 1QZ UK

**MURPHY INTERNATIONAL TRADING – CHINA**  
 SUITE 1704, ANTAI BUILDING, 107 ZUNYI RD  
 SHANGHAI, 2000 S1 CHINA

**ENOVIATION CONTROLS INDIA PVT. LTD.**  
 301, 3RD FLOOR, KRNSA CHAMBERS,  
 11 GALAXY GARDENS, NORTH MAIN ROAD,  
 KOREGAON PARK, PUNE 411001,  
 MAHARASHTRA, INDIA

### U.S. SALES & SUPPORT

**MURPHY PRODUCTS**  
 PHONE: 918 317 4100  
 EMAIL: SALES@ENOVIATIONCONTROLS.COM  
 WWW.ENOVIATIONCONTROLS.COM

**MURPHY INDUSTRIAL PANEL DIVISION**  
 PHONE: 918 317 4100  
 EMAIL: IPDSALES@ENOVIATIONCONTROLS.COM

### INTERNATIONAL SALES & SUPPORT

**EUROPE, MIDDLE EAST, AFRICA**  
 PHONE: +44 1722 410055  
 EMAIL: SALES@ENOVIATIONCONTROLS.EU

**CHINA**  
 PHONE: +86 21 6237 5885  
 EMAIL: APSALES@ENOVIATIONCONTROLS.COM

**LATIN AMERICA & CARIBBEAN**  
 PHONE: +1 918 317 2500  
 EMAIL: LASALES@ENOVIATIONCONTROLS.COM

**INDIA**  
 PHONE: +91 91581 37633  
 EMAIL: INDIASALES@ENOVIATIONCONTROLS.COM



FM 28221 (Tulsa, OK - USA)  
 FM 29422 (UK)