

VGD Series

Vehicle Gas Detector for Oxygen, CO or Other Toxic Gases, with CAN bus Digital Output

FEATURES

- Multi-Message CAN bus Digital Output Beacon for Use in Monitoring by Vehicle Control System
- RS-485 Digital Input/Acquisition for Calibration
- Small Footprint
- RFI/EMI Resistant
- Robust Integrated Mounting Flange Enclosure Resistant to Vehicle Shock and Vibration
- Resistant to Vehicle Environments/Contaminants
- Replaceable Electrochemical Sensor
- Excellent Chemical Selectivity

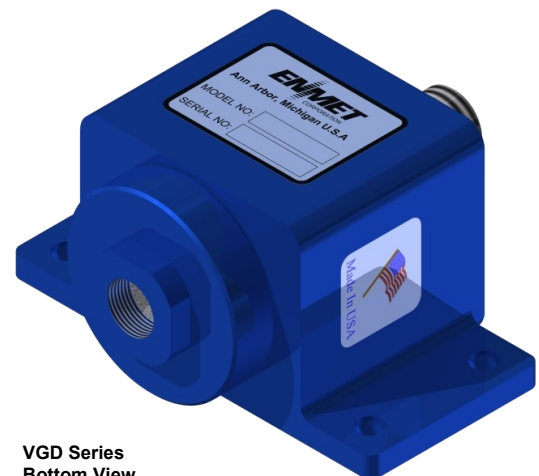
SPECIFICATIONS

Size, Approx:	4.5 x 4.0 x 2.25 inches (114 x 102 x 57 mm)
Weight:	1.1 lbs (499 g)
Enclosure Material:	Solid machined aircraft grade 6061 aluminum
Connector:	MIL Spec Series III Circular Polarized connector
Input Voltage Range:	9 to 36 VDC
Output:	Digital CAN bus (Output Beacon Only)
Current Draw:	< 50 mA
Temperature Range:	-22°F to +122°F (-30°C to +50°C)
Humidity Range:	5% to 90% RH, non-condensing
Pressure Range:	Atmospheric \pm 10%



VGD Series
Top View

The VGD series Sensor/Transmitter utilize electrochemical type cells to detect the target gas. These cells consist of electrodes, electrolyte and an air/liquid separation barrier. Gas molecules enter the cell and, as a result of an oxidation/reduction reaction, generate an electrical current proportional to the gas concentration. This current is measured, conditioned, and converted to the gas concentration digitally transmitted as a CAN bus beacon output signal. The data is also available for acquisition via RS-485 Modbus RTU. Calibration is handled via a PC interface software. These sensor/transmitters can also be connected to various computer based instrumentation for data acquisition and control.



VGD Series
Bottom View



Creative Gas Detection Solutions

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