

ELECTRONIC PACKING VENT MONITOR



FOR COMPRESSOR PACKING CASE VENT FLOW ANALYSIS

ePV™ is a vent flow analysis tool specifically designed to monitor gas compressor packing cases. The ePV™ can be permanently mounted or used as a portable device to meet the EPA Greenhouse Gases Reporting Rule Subpart 'W' requirements for emissions monitoring.

The ePV™ utilizes proven thermal-dispersion flow measurement technology with equal mass sensing to achieve outstanding sensitivity and repeatability. The instrument's wetted parts are superior corrosion-resistant 316L stainless steel with Hastelloy-C sensor tips.

The sensor element has no moving parts to foul, clog, or maintain which ensures continuous reliability and no maintenance costs. There are no cavities, orifices or dead-legs to trap or contaminate samples which preserves sample integrity and faster system sampling times.

FEATURES

- No moving parts, non-clogging
- Handles gases and liquids
- For use in tubing & piping up to 6" diameter
- Superior low-flow sensing (1-100 FPS)
- Single configuration meets all flow ranges

Outputs include both:

- 4-20 mA Analog Output
- Serial RS232C I/O
- 10 LED Array on sensor face
- No cavities or dead-legs
- Simple, screw-in installation
- Lowest-cost solution for end-users and system integrators
- Self-contained unit
- Does not require calibration in the field

ePV™ electronics are packaged in a rugged, fully-sealed, aluminum housing which provides exceptional protection and long-life under all process conditions.

A 4-20mA output can be assigned to flow rate or temperature. The ePV™ unit can be programmed by the sensor push buttons or through the RS232 connection with the provided software.

ePV™

INSTRUMENT AND FLOW ELEMENT

MEDIA COMPATIBILITY:

- All gases and liquids compatible with 316L stainless steel and Hastelloy C22

PROCESS CONNECTION:

- Insertable: 1/2" NPT for use with 2"-12" pipe
- Tube tee 1/4", 3/8" and 1/2" tubing

ACCURACY:

- $\pm 1\%$ of reading, $\pm 0.5\%$ of full scale ± 0.05 SFPS
- All calibrations on NIST traceable flow stands

REPEATABILITY:

- $\pm 0.5\%$ of reading

FLOW RANGE:

- From 1 to 100 ft/sec velocity; flow range depends on pipe or tube tee area

OPERATING PRESSURE:

- Tube tee ePV™: 500 psig
- Insertable ePV™ with compression fitting:
 - 150 psig Teflon ferrule
 - 500 psig Stainless steel ferrule

OPERATING TEMPERATURE:

- All Models: -40°F to 250°F

MATERIALS OF CONSTRUCTION:

- (Wetted parts) 316L stainless steel with Hastelloy C-22 thermowells

TRANSMITTER/ELECTRONICS

ENCLOSURE:

- NEMA 4X, anodized aluminum

OPERATING TEMPERATURE:

- -40°F to 160°F

OUTPUT SIGNALS:

- 4-20 mA (500 Ω max. load) User scalable, general purpose, output proportional flow rate for trend monitoring
- RS232C Input/Output Connection
- 10 LED Array

INPUT POWER:

- 24 Vdc (21.5 Vdc to 30 Vdc); maximum

AGENCY APPROVALS

INPUT POWER:

- Class I, Division 2, Groups A, B, C & D
- Class II, Division 2, Groups E, F & G
- Class III, T4 @ $T_a = 71^{\circ}\text{C}$ Type 4X

NEMA ENCLOSURE: Nonincendive

ePV™

TUBE TEE^{ePV}



INSERTABLE^{ePV}



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60 years of
ENGINEERED
EXCELLENCE