



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.

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.

- No moving parts, non-clogging
- Handles gases and liquids
- For use in tubing & piping up to 6" diameter
- Superior low flow sensing (0-100 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



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INSTRUMENT

MEDIA COMPATIBILITY: All gases and liquids compatible with 316 stainless steel

PROCESS CONNECTION:

- Insertable 1/2" NPT
- 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 0 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

Standard: -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 2.5 watts

AGENCY APPROVALS

FM & FMC/ CE MARK:

Class I, Division 2, Groups A, B, C & D

Class II, Division 2, Groups E, F & G

Class III, T4 @ Ta = 71°C Type 4X

NEMA ENCLOSURE: Nonincendive



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