ELECTRONIC PACKING VENT MONITOR

COMPRESSOR ENGINEERING CORP.

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.

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™

800.TRY.CECO TRYCECO.COM sales@ceconet.com

60 ENGINEERED EXCELLENCE

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

REPEATABILITY:
- ±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

ePV™

TUBE TEE ePV

INSERTABLE ePV

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
- Class I, Division 2, Groups A, B, C & D
- Class II, Divsion 2, Groups E, F & G
- Class III, T4 @ Ta = 71°C Type 4X

NEMA ENCLOSURE: Nonincendive

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