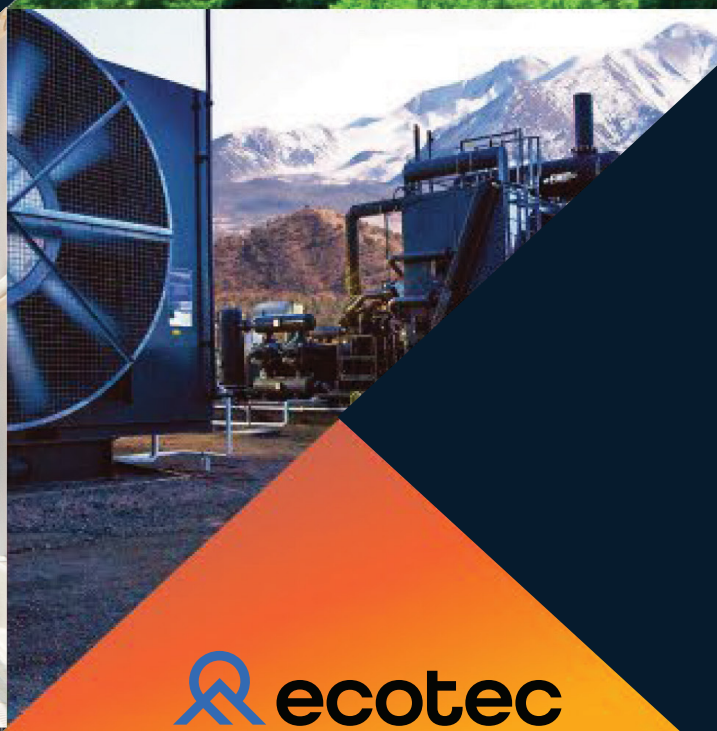
EcoFlow

Methane Flow Measurement

Designed for NSPS OOOOb
Subpart 60.5386b



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Methane Flow Measurement Designed for NSPS OOOOb Subpart 60.5386b

EcoFlow

The **Ecotec EcoFlow** has been designed to measure your compressor rod packing leak rates as required by the New Source Performance Standards (NSPS) Subpart OOOOb. The EcoFlow is your cost effective approach to safely and efficiently determine methane content and flow rates from your compressors. The EcoFlow is Method 2D compliant (required by the rule) and provides you with the exact standard cubic feet per minute measurement required for compliance.

How does it work? The EcoFlow provides an ingenious method for calculating methane flow rates. It starts with the utilization of the Tunable Diode Laser (TDL) found in Ecotec's Inspectra Max, a Method 21 compliant tool with years of service. The TDL is tuned specifically for methane with a sensitivity of < 1 ppm! The EcoFLow also uses an anemometer to calculate the actual flow rate coming from the emission source. The combination of the flow rate and ppm methane reading delivers an instantaneous methane SCFM readout! Did we mention that the EcoFlow is proudly assembled in the USA?

Minimize Your Waste Emission Charge!

Are you looking to measure methane flow rates from more than just compressor rod packing? The EcoFlow does that too! With EcoTec's available attachments, you can measure your methane flow from virtually anything with less than a 16 scfm flow rate! This can include items such as valves, flanges, crank cases, and even plugged wells.

The EcoFlow can also be used to minimize your methane Waste Emission Charge. The device will allow for the use of empirical measurement instead of an overly estimated emission factor. When paired with Ecotec's Gazoscan, you have a path to document nearly o methane fugitive emissions from your equipment (reference the N-I-Q diagram on the following page).

By leveraging Ecotec's Inspectra technology, the EcoFlow allows for the most portable flow device on the market. The EcoFlow also offers this industry leading technology at an unrivaled price point.

ECOTEC specializes in the design and development of customized equipment offering a unique approach to methane monitoring, detection, and compliance by leveraging proprietary hardware and software in an all inclusive approach to methane reduction.

- 30+ year history in biogas, waste management, and utilities industries
- Emissions detection history with natural gas, utility, landfills, RNG, and carbon credits
- Utilization of laser technology providing faster, more reliable methane analysis than competing technologies, all while providing industry leading accuracy and sensitivity

Ecotec's suite of hardware and software offers a completely traceable ecosystem which integrates field, enterprise, and back-office groups to manage the notification, identification, and quantification of methane emissions.

N
NOTIFICATION

Continuous remote stationary methane monitoring with real-time alerts from field-proven **GAZPOD.**

I
IDENTIFICATION

Utilization of **GAZOSCAN** for rapid identification of leaking components at a fraction of the price compared to optical gas imaging cameras.

Q
QUANTIFICATION

Direct and accurate measurement of the actual methane emission rate through the use of **ECOFLOW.**

EcoFlow Kit

Technical Specifications

MEASUREMENTS

SENSOR	TYPE	RANGE	RESPONSE TIME (T90)	ACCURACY
CH_4	Laser	0-100%	≤6s	+/-0.5 ppm
Flow	Vane Anemomemter	0-16 SCFM		+/-2% reading

GAS CONDITIONING

Particle Removal	Particles >20 microns
Liquid Removal	Can sample on wet or dry basis, gas must be non-condensing

POWER SUPPLY

Battery Type	NiMH rechargeable battery pack - 3 x 1.2V (6450 mAh)

ENVIRONMENTAL CONDITIONS

Operating Temperature	14°F - 176°F (-10°C - +80°C)
Relative Humidity	5% - 85% relative humidity

PHYSICAL

Dimension	14" x 12" x 9.5" / 356mm x 305mm x 241mm
Weight	10.2 lbs (4.6kg)

PUMP

Flow Rate	70 l/hr

ACCESSORIES

Temperature Probe	+/-1°C of reading -22°F to 266°F (-30°C to +130°C)

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