

High Flow Sampler

Leak Measurement and Quantification



Taking leak detection to a new dimension! Portable, safe, battery powered – perfect for one-man operation.

This equipment best suited to detect gas leakage around:

*Various pipefittings
Valve packings
Compressor seals*

Found in:

*Gas Transmission
Storage
Compressor Facilities*

High Flow Samplers capture all of the emissions from a leaking component to accurately quantify leak emissions rates. The left photograph shows leak measurement using a high volume sampler. Leak emissions, plus a large volume sample of the air around the leaking component, are pulled into the instrument through a vacuum sampling hose.

High volume samplers are equipped with dual hydrocarbon detectors that measure the concentration of hydrocarbon gas in the captured sample, as well as the ambient hydrocarbon gas concentration. Sample measurements are corrected for the ambient hydrocarbon concentration, and a mass leak rate is calculated by multiplying the flow rate of the measured sample by the difference between the ambient gas concentration and the gas concentration in the measured sample. High volume samplers are equipped with special attachments designed to ensure complete emissions capture and to prevent interference from other nearby emissions sources. High volume samplers measure leak rates up to 8 standard cubic feet per minute (scfm), a rate equivalent to 11.5 thousand cubic feet per day (Mcf). Leak rates greater than 8 scfm must be measured using bagging techniques or flow meters. A single operator can measure as many as thirty components in an hour using a high volume sampler, compared with two to three measurements per hour using traditional techniques.

Features & Benefits

One-man operation

Lightweight

Automatic or manual flow capture

Internal Diagnostics

Re-chargeable, NiMH batter pack

Intrinsically safe for Hazardous Locations, Class 1, Div. 1, Groups A, B, C and D

The top panel contains the following 9-pin DIN electrical connections and gas-hose connections:

- Computer – RS232 communications port for downloading stored test data to an external PC
- GPS – Input for future connection to Ground Positioning System receiver
- SCANNER – Input for future connection to Bar code scanner input
- Leak Gas Inlet – Main hose connection used to collect gas from leak source
- BACKGROUND Gas Inlet – Gas hose connection used to sample background levels of CH₄
- GAS Inlet – Calibration gas connection
- HI PRESSURE & LOW PRESSURE Inlets – Not used

Call to request equipment quote and check product availability.

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