

Now Available



HI FLOW SAMPLER

**Heath's Hi Flow Sampler -
The ability to measure gas leaks has finally arrived.**



Whether you're managing a leak detection and repair program or active in greenhouse gas trading, the Hi Flow Sampler allows an accurate emission or leak rate to be made in less than one tenth the time required to perform an en-

closure measurement. This portable, intrinsically safe, battery-powered instrument will give you the ability to accurately measure leak rates of all natural gas components. This is accomplished by sampling at a large flow rate (between 5 and 10.5 cfm) to completely capture all the gas leaking from the component. By accurately measuring the flow rate of the sampling stream and the natural gas concentration within that stream, the gas leak rate can be calculated.

A true dollar value can now be placed on leakage that often resulted in a "pegged source" through method 21 procedures. The Hi Flow Sampler is the most effective measurement tool avail-

able today to help you achieve direct results and great success with your Directed Inspection and Maintenance program. The use of the Hi Flow Sampler will help optimize maintenance budgets by determining which components should be serviced based on the volume of lost gas and the payback period of the repair.

Research by Indaco Air Quality Services through GRI has confirmed that 80% - 90% of lost product is attributed to 10% of the leaking components. The Hi Flow is the perfect tool you need to identify that 10%.



Who should own a Hi Flow Sampler?

- **Transmission Compressor Station Operations**
- **Reliability Technicians**
- **Distribution Leak Detection and Measurement Departments**
- **Processing Plants**
- **Environmental Managers accounting for Fugitive Emissions**
- **EPA Gas STAR Members**

See back for specifications and ordering information

Why Use The Hi Flow Sampler?

- **Determine Total Fugitive Emissions and Gas Losses From Facilities**
- **Determine Cost Effective Repair Strategies**
- **Document Emission Controls for Greenhouse Gas Credits**
- **Quick return on investment, 3-10 months**

HI FLOW SAMPLER



Specifications

Weight: 20 lbs (0.9 kg)
Dimensions: 18L x 12W x 7H inches (457 x 305 x 178 mm)
Display: 8 line by 20 character LCD
Measured Values: Sampling Flow Rate
 Background Gas Concentration
 Sample Gas Concentration
 Battery Voltage
Calculated Values: Leak Concentration Corrected for Background
 Leak Rate
 Percent Difference Between Leak Rate Measurements #1 and #2
Measurable Leak Rate: 0.05 to 8.00 SCFM
Accuracy of Calculated Leak Rate: ± 10% of reading
Temperature:
Operating: 0 to 50°C (32 to 122°F)
Storage: -40 to 60 °C (-40 to 140 °F)
Humidity: 5 to 95% RH (non-condensing)
Sampling Flow Rate:
Maximum Operating Flow Points 10.5 SCFM (297 LPM) at full battery charge
 Initial flow approx. 10 SCFM (283 LPM)
 Second flow approx. 8 SCFM (226 LPM)
 (The second flow rate is 25% of the initial flow)

Measurement Method: Differential pressure across restriction
Accuracy: ±5% of reading
Natural Gas Sensor:
Detection Method: Catalytic oxidation / Thermal Conductivity
Range:
Catalytic oxidation: 0 to 5% by volume methane
Thermal conductivity: 5 to 100% by volume methane
Accuracy: ±5% of reading of 0.02% Methane, whichever is greater
Battery:
Type: Intrinsically Safe NiMH rechargeable pack
Voltage: 5.5 V, max.
Recharge Time: 8 to 10 hours
Run Time: >4.5 hours continuous operation @ 20°C (68 °F)
Memory: Stores up to 1000 individual test parameters
Communication: Three DB9 connectors providing serial data transfer at 115200 baud to a personal computer, bar code reader, and GPS receiver.
Agency Approvals: Designed to be intrinsically safe for use in hazardous locations Class I, Division I, Groups A,B,C & D in North America
 CAN/CSA-No. 157 – (June 1992)
 ANSI (June 27th, 2002)/UL913-2002
 Intrinsically Safe Apparatus and Associated Apparatus for use in Class I, Division I, Hazardous Locations
 CE Mark – See this manual's inside front cover for Declaration of Conformity statement.

PART NUMBER	DESCRIPTION
101139-0	Hi Flow Sampler, natural gas leak rate measurement instrument with backpack, sampling hose assembly, 8-line x 20 character tethered LCD Display, (2) rechargeable battery packs, battery charger and sampling attachments including flange attachments, beveled attachments and capture bags.
8300121	Calibration Kit with blue carrying case and demand regulator, 1 cylinder with 2.5% Methane, 1 cylinder with 99.0% Methane, 3-way ball valve to switch between cylinders.
8300110	Demand regulator only
8300113	Regulator for disposable cylinder
2227272	Cylinder with 99.0% Methane
2227265	Cylinder with 2.5% Methane

Heath Consultants Incorporated operates under a continual product improvement program and reserves the right to make improvements and/or changes without prior notification.



AddGlobe, LLC
 In USA: 155 Bovet, Suite 476, San Mateo, CA 94402, USA
 tel.: +1.650.357.7735 fax: +1.650.357.7342
 In Russia: 101000, Russia, Moscow, Miasnitskaya Str, 24/7/1
 tel./fax +7 495 229-4481