

# 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 enclosure 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 0.5 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 available today to help you achieve direct results and great success with your Directed In-

spection 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 the U.S. EPA and Heath Consultants 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***

### ***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

### Measured Values:

Gas sample flow rate  
Background gas concentration  
Sample gas concentration

### Calculated Values:

Leak rate of component under test  
Leak concentration corrected for background

**Measurable Leak Rate:** 0.01 to 10.50 SCFM

**Accuracy of Calculated Leak Rate:**  $\pm 5\%$

**Sampling Flow Rate:** up to 10.5 SCFM  
maximum (297 LPM) at full battery charge

**Memory:** Stores up to 1000 individual test parameters

### Natural Gas Sensor:

Detection Method: Catalytic oxidation /  
Thermal conductivity  
Range: 0 to 5% methane, catalytic; 5 to  
100% methane, thermal  
Accuracy:  $\pm 5\%$  of reading or 0.02%  
methane, whichever is greater

### Battery:

Type: NiMH rechargeable pack  
Voltage: 5.5V max.  
Recharge Time: 8 to 10 hours  
Run Time: >4.5 hours continuous at 68°F

**Operating Temperature:** 0 to 50°C  
(32 to 122°F)

**Measurement Method:** Differential pressure  
across restriction

**Dimensions:** 18 x 12 x 7 inches

**Weight:** 20 lb (9.0 kg)

### Agency Approvals:

Certified intrinsically safe for use in  
hazardous locations, Class I, Division 1,  
Groups A, B, C & D in North America  
CAN/CSA-C22.2 No. 157 (June 1992)  
ANSI (June 27, 2002)/UL913-2002. MET  
Laboratories, Inc. File Number E112232.  
Sept. 16, 2002. CE Mark.

### PART NUMBER DESCRIPTION

<b>300000-0</b>	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.
<b>300004-0</b>	Calibration Kit with blue carrying case and demand regulator, 1 cylinder with 2.5% Methane, 1 cylinder with 99.0% Methane. Three way ball valve to switch between cylinders, trans fillers, tubing and connectors for Hi Flow Sampler and Gasurveyor.
<b>300060-0</b>	Disposable calibration kit
<b>55-0064</b>	Demand regulator only
<b>8300113</b>	Regulator for disposable cylinder
<b>55-0060H</b>	Replacement cylinder with 99.0% Methane
<b>51-1121H</b>	Replacement cylinder with 2.5% Methane
<b>0124601</b>	Transfiller - CGA590 Fitting
<b>0111002</b>	Transfiller - CGA350 Fitting

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



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