

**OUR SOLUTIONS.
YOUR SAFETY.**

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MADE IN CANADA



INTRODUCING THE HETEK FLOW SAMPLER

This portable, intrinsically safe certified, battery-powered instrument will give you the ability to accurately measure leak rates at various natural gas components. This is accomplished by sampling at a large flow rate to completely capture all the gas leaking from the component. By accurately measuring the flow rate of the sampling stream and the gas concentration within that stream, the gas leak rate is calculated in CFM or LPM.



THE HETEK FLOW SAMPLER IS AN INTEGRAL PART OF YOUR
FUGITIVE EMISSIONS TOOLKIT ALONG WITH:



TECHNICAL SPECIFICATIONS

Specification	Value
Display Information	- Date and Time - Battery Level - Sample Concentration - Background Concentration - Blower flow rate - Difference between 2 stages - Leak Temperature - Quantified Leak Rate
Display Screen Size	3-inch LCD Display
User Controls	4 Pushbutton keys: ESCAPE; ↑ (up arrow); ↓ (down arrow); ENTER
Data Output	Data log file and Calibration log file (.CSV format)
Memory	800 records for Data; 1000 records for Calibration
Communication	USB cable from Hetek Flow Sampler to a digital device
Measured Values	- Blower Flow Rate - Battery Level - Sample Gas Concentration - Background Concentration
Calculated Values	- Quantified Leak (Stages 1 and 2) – CFM or LPM - Difference between stage 1 and stage 2 (Automatic and Manual)
Humidity	0 – 95% relative humidity (non-condensing)
Operating Temperature	- 20°C to 40°C (-4°F to 104°F)
Storage Temperature	- 20°C to 45°C (-4°F to 113°F); - 40°C to 90°C (without battery)
Blower Flow Rate	Maximum ≈ up to 8.0 CFM (225 LPM) at full battery charge Stage 2 is 70 – 80% of the flow rate of Stage 1
Sensor	Catalytic Oxidation Mode: 0 to 5% by volume methane Thermal Conductivity Mode: 5 to 100% by volume methane The expected sensor life is 18-24 months under normal operations and is warrantied for 12 months
Leak Measurement	0.50 – 140 LPM (0.017 – 5.0 CFM, 19.65 – 5502 g/hr) : Automatic 2-Stage & Manual 2-Stage 0.13 – 140 LPM (0.004 – 5.0 CFM, 4.95 – 5502 g/hr) : Manual 1-Stage
Battery	Standard Quantity: Two (2) with every Hetek Flow Sampler 4.8 V Nickel-Cadmium Rechargeable Battery Run Time: ≈ 4 hours (per battery) Recharge Time: 12 hours
Weight	Enclosure and Display : 19.90 lbs (9.05 kgs)
Dimensions	Enclosure: 12" L x 16" H x 7.5" D (30.48 cm L x 40.64 cm H x 19.05 cm D)
Flow Measurement	Differential pressure across orifice
Accuracy	Sensor: ± 5% Flow Rate: ±5% Calculated Leak Rate: ±10%
Certification (Intrinsic Safety in Hazardous Locations across North America and Europe)	CSA C22.2 No.60079-11 (2 nd edition), CSA C22.2 No. 60079-0 (4 th edition), UL 60079-0 (7 th edition), UL 60079-11 (6 th edition), UL 913 (8 th edition). IS Class I, Division 1, Group D, T3 Class I, Zone 0 AEx ia IIA T3 Ga Ex ia IIA T3 Ga CE 2900 Ex II 1G Ex ia IIA T3 Ga

ITEMS WITH APPLICABLE PART NUMBERS

HETEK FLOW SAMPLER WITH INCLUDED ITEMS BELOW: PART #1840-0000

INCLUDED: Backpack (1840-0058), 2 Batteries (1840-1003), Crevice Tool (1840-1082), Charger (1840-0100), Cone Collection Tool (1840-0061), Sample Collection Bag (1840-0059), 6-foot hose (1840-2004), 12-foot hose (1840-2005), Flange Tool (1840-0060), Communication USB cable (1840-1067), Grounding Clamp and Cable (1840-0064), Firmware Upgrade Kit (1840-1112, 1840-1113, 1840-1114), Balance Charger (1840-2006).

OPTIONAL: Cotton Filters for Sensors (6100-6119), Internal Inlet Filter (1840-1001), Calibration Kit (1840-0013), Battery (1840-1003), Charger (1840-0100), Balance Charger (1840-2006).

