



# LEAK DETECTION



**PORTABLE  
SNIFFER LEAK  
DETECTORS**

# PORTABLE LEAK DETECTOR OVERVIEW

## SNIFFER LEAK DETECTOR PRODUCT COMPARISON

	PART NUMBER	GAS	SENSITIVITY	FEATURES/ APPLICATIONS
<b>MINITRACER</b> 	LHHLD-1000	Helium	2 x 10 <sup>-5</sup> ATM-cc/sec (helium)	<ul style="list-style-type: none"> <li>• Qualitative leak rate output (LED bar graph display)</li> <li>• Leak location on pressurized systems</li> </ul>
<b>GASCHECK 3000</b> 	LHHLD-3000	Helium, argon, hydrogen and other gases	2 x 10 <sup>-5</sup> ATM-cc/sec (helium)	<ul style="list-style-type: none"> <li>• Quantitative leak rate output (digital display)</li> <li>• Leak location on pressurized systems</li> </ul>
<b>GASCHECK 5000IS</b> 	LHHLD-5000IS	Helium, argon, hydrogen and other gases	2 x 10 <sup>-5</sup> ATM-cc/sec	<ul style="list-style-type: none"> <li>• Quantitative leak rate output (digital display)</li> <li>• Data logging capability</li> <li>• Intrinsically safe unit</li> <li>• Leak location on pressurized systems</li> </ul>
<b>GASCHECK SF6</b> 	LHHLD-SF6	SF6	.1 ppm or .3 ppm	<ul style="list-style-type: none"> <li>• High voltage switch gear</li> <li>• Leak testing</li> </ul>
<b>2002</b> 	LHHLD-2002	Helium	0.01% helium	<ul style="list-style-type: none"> <li>• Underground tanks, lines, cable</li> </ul>

# MINITRACER™ MULTIGAS LEAK DETECTOR

A SENSITIVE, PRECISE LEAK DETECTOR DESIGNED FOR SIMPLE OPERATION AND EXACT IDENTIFICATION OF SYSTEM LEAKS FOR HELIUM AND OTHER GASES.

## INDUSTRIAL APPLICATIONS:

TESTING & QUALITY CONTROL  
 VALVES & MANIFOLDS  
 WELDS, SEAMS & JOINTS  
 PRESSURE REGULATORS  
 COMPRESSION FITTINGS  
 HIGH PRESSURE VESSELS  
 HIGH PRESSURE GAS LINES  
 REFRIGERATION & AIR CONDITIONING

## LAB APPLICATIONS:

GAS CHROMATOGRAPHS  
 PURGE & TRAP SYSTEMS  
 INJECTION PORTS/SEPTA  
 COLUMN & DETECTOR FITTINGS  
 GAS PURIFIERS & TRAPS  
 MASS FLOW CONTROLLERS  
 CYLINDER CONNECTIONS  
 TUBE FITTINGS

## PORTABILITY

Utilizing thermal conductivity to pinpoint gas leaks from pressurized systems, the highly-sensitive MINITracer™ Gas Leak Detector offers precise detection of gas leaks from pressurized systems. From controls that allow users to select hi/lo sensitivity settings, to a probe tailored to both reach confined locations and determine exact leak sites, the miniTracer™ offers precise leak detection in a portable design.



## SIMPLE OPERATION

Without soap solutions that can cause system contamination, the MINITracer's™ probe passes over the leak and a sample is drawn into the thermal conductivity cell. When a leak is detected a signal is registered on the meter and/or an audible signal is emitted.



## FEATURES

- Simple operation
- Convenient padded carrying case
- High signal-to-noise ratio sustains maximum usable sensitivity
- Dual power source: battery-operated or 115V
- Solution/soap-free detection eliminates system contamination

## PRODUCT SPECIFICATIONS

<b>PART NUMBER</b>	LHHL-1000
<b>DETECTOR</b>	Thermal conductivity cell with thermistors
<b>VISUAL READOUT</b>	LED Bar Graph featuring adjustable brightness; Peak hold with settable duration
<b>BATTERY LIFE</b>	7-8 hour duration; Recharged to 95% of capacity in 1 hour; Low battery indicator; Very low battery shutdown
<b>RANGES</b>	Low: x1 High: x100; Adjustable sensitivity for low and high ranges; Time Constant/Average
<b>WEIGHT</b>	Instrument: 1.05 lbs (476 grams); Charger: .61 lbs (277 grams)
<b>DIMENSIONS</b>	5.25" L x 3.25" W x 1.81" H (20.95 x 4.60 x 13.34 cm)
<b>AUDIO SIGNAL</b>	Audible alarm with adjustable setpoint and volume
<b>PUMP</b>	Diaphragm type; Pump speed control
<b>BATTERY</b>	Rechargeable Ni-Cd, 7.36 V, 800 mAh
<b>LINE VOLTAGE</b>	115V, 60 Hz
<b>ZERO</b>	Manual with drift elimination
<b>OPERATING TEMP</b>	70 F x/ -20 F (21 C +/- 11 C)

# GASCHECK LEAK DETECTORS

## HELIUM AND MULTI-GAS PORTABLE LEAK DETECTORS



A handheld, portable, battery operated leak detector for sniffing helium and other gases using thermal conductivity technology. Principally calibrated for helium, the unit has multiple gas selection. Fitted with a large back lit LCD, the display shows unit setting and numerical readout, even in dark, confined spaces. When searching for leaks the unit can easily be set into auto-range, giving the maximum sensitivity when required. Peak hold control allows accurate reading of leak rate, which is useful where external or traceable standards apply. The GasCheck uses a robust microthermal conductivity sensor to detect any gas providing it is different from air. It is calibrated for Helium but works well with Ammonia, Argon, Butane, Hydrogen, SF6 and some refrigerants.

### LEAK TESTING APPLICATIONS:

QUALITY ASSURANCE TESTING ON COMPONENT SEALS

GAS CHROMATOGRAPHS

MASS SPECTROMETERS

GAS CYLINDERS & FITTINGS

GAS INSTALLATIONS

PIPELINE ASSEMBLIES

STORED GASES & CHEMICALS

ANAESTHETIC GAS BOTTLES

MEMBRANE MATERIALS & GLOVE BOXES

VALVE EMISSION EVALUATION

PIPELINE JOINTS, GASKETS & CHAMBER WINDOWS

### PRODUCT SPECIFICATIONS

<b>PART NUMBER</b>	LHHLD-3000, LHHLD3000IS, LHHLD 5000IS
<b>DETECTOR</b>	Micro volume thermal conductivity cell
<b>ACCURACY</b>	+/-5%
<b>DISPLAYED READING</b>	One digit
<b>TEMPERATURE</b>	-20 to 60°C
<b>FLOW RATE</b>	2cc/min
<b>RESPONSE</b>	1 second with 1 second clear downtime
<b>DIMENSIONS</b>	L = 15" x W = 2.5" x D = 2"
<b>WEIGHT</b>	With batteries 1.1 pound
<b>BATTERIES</b>	4 AA (supplied)
<b>BATTERY LIFE</b>	40 hours (typical unit)

Note: Also available with sniffer style calibrated leaks.

### LHHLD-3000

Designed specifically for the search and locate of non-flammable gases.

### LHHLD-3000IS

Includes same features as GasCheck 3000 and is certified for use in flammable atmospheres.

### LHHLD-5000IS

Includes advanced features such as data logging with accurate time and date stamp record keeping, choice of units including ppm, and a user settable alarm level. It can communicate with a PC without the need of wires using an infrared window on the back of the unit and is certified for use in flammable atmospheres. Data communications requires the IRLINK accessory (sold separately).



# UNDERGROUND HELIUM LEAK DETECTOR

## PRECISION UNDERGROUND LEAK DETECTION



Ideal for locating leaks in underground applications, the LHLD-2002 handheld sniffer leak detector operates in automatic (survey) mode or manual mode and can pinpoint leaks with sensitivity from 25 ppm. The LHLD-2002 utilizes either helium or hydrogen as a tracer gas and features a field replaceable moisture removing cartridge in wand, a lightweight, telescoping ground probe with boot, and rapid charging Ni-MG battery with AC and car adaptors.

### LEAK TESTING APPLICATIONS:

DIRECT BURIED TELEPHONE CABLES

SPLICE CASES

UNDERGROUND DUCTED CABLES

AIR PIPE SYSTEMS

MUNICIPAL WATER SYSTEMS

INDUSTRIAL AIR/GAS/LIQUID PIPING SYSTEMS

ELECTRONICS INDUSTRY

HIGH VOLTAGE AC POWER SYSTEMS

HIGH DEFINITION TELEVISION

CHEMICAL MANUFACTURING

ABOVE/UNDERGROUND STORAGE TANKS

CELLULAR AND ANALOG TELECOMMUNICATIONS

### FEATURES

- Tactile membrane keypad
- Backlit LCD display
- One hand operation
- Field replaceable battery Headphone jack for audible monitoring
- Time-lapse bar graph display
- Audible or digital output
- Optional accessories include: headphones, spare battery, and replacement moisture trap cartridge
- Moisture indicator in wand

### PRODUCT SPECIFICATIONS

<b>PART NUMBER</b>	LHLD-2002	
<b>DIMENSIONS</b>	LxW.D	33.7 cm x 12.3 cm x 8.3 cm (13.3" x 4.9" x 3.3")
<b>WEIGHT</b>	LHLD-2002 only	1400 grams (3.1 lbs)
	Shipping	6800 grams (15.0 lbs)
<b>TEMPERATURE RANGE</b>	-10c to +45c (+14F to +113F)	
<b>HUMIDITY RANGE</b>	20% RG to 50% RH	
<b>SENSITIVITY</b>	Minimum	25 PPM
	Maximum	1,000,000 PPM (100%)
	Increment	25 PPM
<b>SELECTIVITY</b>	Hydrogen (H <sub>2</sub> )/Helium (He)	
<b>RESOLUTION</b>	(Low range)	+/- 25 PPM
	High range	+/- 0.2%
<b>RESPONSE TIME</b>	2 seconds (approx.)	
<b>AUDIO OUT</b>	Pulse Width Modulation	
<b>LCD</b>	128 Bit x 64 Bit Dot Matrix with long life backlight	
<b>PROCESSOR</b>	Type	Infineon (16 Bit)
	Speed	20 MHZ
	ROM	512 KBytes
<b>BATTERY</b>	Voltage	7.2 VDC
	Type	Nickel Metal Hydride
	Weight	383.0 grams
	Run Time	6-8 hours continuous
	Charging Cycles	300-500
	Charging Volts	9.5 - 14 VDC @ 2A

# SF6 LEAK DETECTOR

## AWARD-WINNING LEAK DETECTION USING SF6 GAS



The GasCheck SF6 is designed for the location, leak testing and measurement of SF6 gas in high voltage switchgear. This instrument has none of the problems of registration, storage and transportation typically associated with instruments based on a radioactive source ECD principle. This instrument meets the demands for quality and traceability to International standards as required by today's industry.

### FEATURES

- Smart sensor technology, detachable probe
- Display units cc/sec, gm/yr and ppm
- Touch screen with help menus
- Lightweight 3 button hand gun
- Data storage and printing
- Transit: Compact steel transit case for export shipping
- Up to 15 m (50 ft) "plug in" extensions available as options, enabling increased freedom for roaming with hand held probe.
- Flexible probes for leak searching in confined spaces.

### BENEFITS

- No radioactive detector
- No argon or other pressurized gases required
- No training required, switch ON and go
- Large leaks present no contamination problem
- 10 hours battery use before recharging
- High sensitivity
- Standby mode if unused for 5 minutes (selectable)

### APPLICATIONS

- Glove boxes using a dilute sulfur hexafluoride trace gas, and checking externally for leaks.
- Leak integrity assurance to ultra low levels on equipment containing sulfur hexafluoride and (H)CFCs in medical, refrigeration and air conditioning units.
- High voltage switchgear.

### PRODUCT SPECIFICATIONS

<b>PART NUMBER</b>	LHHL-D-SF6, LHHL-D-SF6X
<b>DETECTOR PRINCIPLE</b>	Negative Ion Capture (NIC) operating in partial vacuum
<b>USABLE SENSITIVITY</b>	1x10 <sup>-7</sup> cc/sec, 1 ppm, 0.2 gm/yr
<b>RESPONSE TIME</b>	<1 sec. Cleardown also <1 sec
<b>POWER SUPPLY</b>	Self-seeking AC supply of 85-265 V
<b>HANDGUN</b>	563 g or 1.25 lb
<b>CONSOLE DIMENSIONS</b>	340 mm x 350 mm x 170 mm (depth) or 13.5" x 14" x 7"
<b>CONSOLE WEIGHT</b>	10.4 kg or 23 lb
<b>PRINTER INTERFACE:</b>	Standard 9 pin serial for printer or computer
<b>CABLE LENGTH</b>	Standard 5 m, extension to 15 m
<b>CALIBRATION</b>	Using a Portable Reference Leak which is in turn calibrated to ISO 9000 using standards which are themselves calibrated by UKAS (NAMAS) or, NIST laboratories