

LEAK TRACER

HELIUM AND HYDROGEN LEAK DETECTOR

2 YEAR
WARRANTY



Helium and Hydrogen Leak Detector
Easy, Dependable, Accurate

LDS VACUUM PRODUCTS

LEAK TRACER BY LDS VACUUM

Dimensions	22Lx19Wx12H in (550Lx460Wx304H mm)
Weight	44 kg, 92 lbs.
Voltage	120 V, 60 Hz
Internal Mechanical Rotary Vane Pump	3 cfm (5 m ³ /h)
Test connection	NW25, KF25 Flange OD: Ø1.57"
Internal Calibrated Gas Leak (Certified)	NIST Traceable, A2LA Accredited Certificate
Detectable gases	⁴ He, ³ He, H ₂
Exhaust gas connection	For hose ø8/6 mm
External backing pump connection	NW25, KF25 Flange OD: Ø1.57"
Venting connection (N ₂)	Sniffing line connection for hose ø6/4 mm
Maximum pressure at the venting connection	1.1 bar
Degree of protection	IP 30
Degree of contamination	2 (EN 61010)
Max. permissible acceleration in operation	1 G (horizontal)

LEAK TRACER

- Simple To Operate
- Easy to Maintain
- Basic Box Leak Detector
- Find Leaks With ⁴He, ³He, H₂
- 2 Year Leak Detector Warranty
- 3 Year Ion Source Warranty
- Supplied with NIST Traceable, A2LA Accredited Calibration Certificate



MEASUREMENT - LEAK TRACER

Operating Modes	Vacuum/Sniffing
Operation standby	≤3 minutes (run time pump)
Inlet pressure	≤18 mbar (temporarily up to 25 mbar)
Filaments	2 (Iridium yttrated)
Measuring rate	20 Hz
Display rate	3 Hz
Relay output	Adjustable
On-screen displays	Leak rate vs. time, analog / digital
Both Analog and Digital Input/Output	
Analog Input	Compact Gauge
Analog Output	Leakage Rate Signal 2x 0-10 V, lin/log
Digital Input	Start/Stop, Zero, Calibration, bypass id
Digital Output	Ready pump, Ready measure, Leak, Error, Bypass
Interface	RS-232-C, RS-485

VACUUM MODE - LEAK TRACER

Smallest detectable leak rate according to AVS 2.1

^4He $<5 \times 10^{-12}$ mbar l/s

^3He $<5 \times 10^{-10}$ mbar l/s

H_2 $<5 \times 10^{-8}$ mbar l/s

Largest detectable leak rate

^4He 1 mbar l/s

$^3\text{He}, \text{H}_2$ 1×10^{-2} mbar l/s

Measuring range 10^{-12} ... 1 mbar l/s

Vacuum Mode Display Dimensional Units mbar l/s, Pa m^3/s , sccm, sccs
Torr*/l/s, atmcc/s

Detectable gases $^4\text{He}, ^3\text{He}, \text{H}_2$

Response time (to 63% of the signal) <0.3 s

Suction rate for helium >2.5 l/s at $p_{\text{inlet}} < 0.5$ mbar

Suction rate at inlet with large backing pump depending on the external pump

Pump Time, Vacuum Mode

at volume 0.5 l 2 s - Pump time up to first measurement
2 s - Pump time for high sensitivity

at volume 10 l 45 s - Pump time up to first measurement
70 s - Pump time for high sensitivity

at volume 100 l 500 s - Pump time up to first measurement
700 s - Pump time for high sensitivity

SNIFFING MODE - LEAK TRACER

Smallest detectable leak rate according to AVS 2.1

$^4\text{He}, ^3\text{He}, \text{H}_2$ $<5 \times 10^{-8}$ mbar l/s

Largest detectable leak rate

^4He 1 mbar l/s

$^3\text{He}, \text{H}_2$ 1×10^{-2} mbar l/s

Measuring range 1×10^{-8} ... 1 mbar l/s

Sniffing Mode Display Dimensional Units mbar l/s, Pa m^3/s , ppm, sccm, sccs,
g/a, oz/yr, Torr*/l/s, atmcc/s

Response time <1 s with 3 m sniffing line

TURBO PUMP

SplitFlow 80 Turbo pump with interstage pumping

Volume flow rate for N_2 60 l/s



NIST
TRACEABLE
CERTIFICATION
INCLUDED



LEAK TRACER OPTION - REMOTE



Smart and Simple Remote With Touch Screen

Wired or Wireless Versions Available

Select to display leak rates in digits, chart mode or bargraph mode on a 3.5" touchscreen

- Automatic or manual data recording
- Store up to 24 hours of measured values
- Data copy via USB stick for download to a PC
- Adjustable alarm trigger setting (70 dB(A) max)
- 32 MB Data storage capacity
- Wireless Operating Range: up to 328' (100 m) outdoor
- Wireless Operating Time: > 8 hours by internal battery

An internal trigger can be set to provide a visual warning when exceeded, as well as an audible sound through the integrated loudspeaker or headphones.

The sound's tone is proportional to the measured leak rate.
The higher the tone, the larger the leak rate.

RC1000C **wired remote control**, includes: 13' (4m) spiral cable

14022 8 m extension cable for RC1000C

RC1000WL **wireless remote control**, includes:
wireless transmitter with connection cable, charger/mains adapter for integrated battery (85 - 250 V, 50/60 Hz)

LEAK TRACER OPTION - SNIFFER PROBE



Speed up the sniffing process with the LDS Leak Tracer Smart Sniffer Probe (LTSSP):

- **Built in zero function**
- **Automatic LED Pass/Fail Indicators** (green and red lights)

LDS Leak Tracer Leak Detector Reads:

5×10^{-8} mbar l/s - 1 mbar l/s (Helium, ⁴He, ³He, H₂)

LTSSP-10 9.8' (3 m OAL) Leak Tracer Sniffer Probe

LTSSP-16 16.4' (5 m OAL) Leak Tracer Sniffer Probe

LEAK TRACER BY LDS VACUUM

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