

HLD6000

Refrigerant leak detector

Leak testing for the highest
quality demands



 **INFICON**
Inspired by visions. Proven by success.



Premium Quality
made in Germany



The best choice for the highest performance

INFICON offers world-leading technologies in the fields of measurement technology, sensor technology and process control. INFICON leak detectors make an important contribution to process efficiency, quality assurance and environmental protection, particularly in industries such as refrigeration and air conditioning, semiconductor manufacturing and automotive production.

With INFICON, you have a competent service representative at your side who knows the challenges of your industry and who, together with you, will find the optimal solution for your requirements. INFICON ensures the best service and the greatest possible support through specialized experts in numerous branch offices worldwide. State-of-the-art production facilities are located in the USA, Europe and Asia.

Maximum efficiency in leak testing

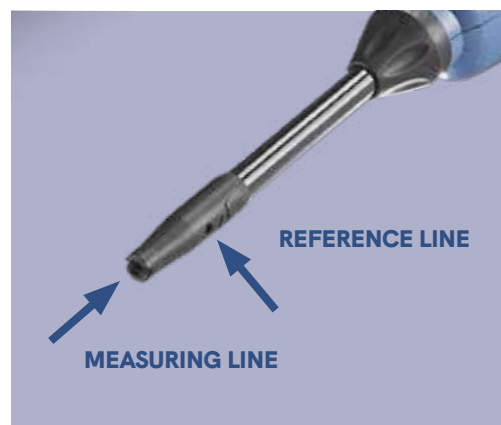
With the HLD6000 refrigerant leak detector, INFICON has refined its outstanding leak testing technology even further. It is setting new standards in user-friendly handling, reproducibility of measuring results and integration into local networks. The slim and ergonomically designed sniffer probe allows even more efficient leak detection. With its intuitive touchscreen display, the HLD6000 is simple to operate. The HLD6000 also features highly versatile communication capabilities. Alongside a USB interface, it features an optional I/O module and an optional fieldbus module for recording and using measurement data and for integration into local networks.

COMPACT, LIGHTWEIGHT AND SMART

A compact sniffer probe is especially important for optimal and efficient leak detection. On the HLD6000, this sniffer probe is not only extremely slim, it is also lightweight and ergonomically designed. Two LED lights in the sniffer tip simplify leak detection at poorly lit inspection locations, allow precise alignment with the inspection location and flash to indicate to the user whether the set threshold value is exceeded. A colored status LED continuously informs the user about the operational readiness, measuring mode, and exceeding of the threshold value, while also indicating faults and warnings.

TWO-CHANNEL INLET SYSTEM

The tried-and-tested two-channel inlet system makes continuous comparison checks between the background concentration and the flow of measuring gas, thus reducing false alarms to a minimum.



OPTIMIZED SNIFFER PROBES

The HLD6000 can be equipped with sniffer probes that are individually optimized for the gases you are aiming to detect. Alongside sniffer probes for CO₂ and for R600a/R290, a universal Smart handheld probe is available for halogen-based refrigerants.



NETWORKS

It is very easy to integrate the HLD6000 into local networks. It features a variety of analog and digital interfaces via the optional I/O module. An optional fieldbus module provides the HLD6000 with even more communication capabilities in local networks. The USB interface not only allows measurement data to be transferred from the internal memory, it can also be used to save measurement values directly to a connected USB stick. The USB interface is also used for software updates. These can be carried out very easily by trained personnel.



DETECTION SYSTEM

As well as a high level of sensitivity, the long-life infrared sensor also features an extremely short response time and has been specially developed for refrigerant detection. This makes it possible to largely prevent possible false alarms due to water, solvents or other sources.

LOW OPERATING COSTS

During the development of the HLD6000, there was a focus not only on using durable and very long-life components, but also on minimizing costs for service and maintenance. For example, the device uses a wear-free sensor. The newly designed COOL-Check holder allows trained personnel to exchange it quickly and precisely at the flick of a wrist for internal calibration leaks.



TOUCHSCREEN DISPLAY

The INFICON HMI navigation system with its intuitive menu guidance makes it particularly easy to use the leak detector with a variety of configuration options. A leakage rate trend indicator displays detected leaks optimally and makes the leak detection process even more efficient.

CALIBRATION PORT

Simple and automatic calibration or function testing is carried out by inserting the sniffer tip.





cTÜVus CERTIFIED
(NRTL APPROVED)



YOUR BENEFITS AT A GLANCE

- **No false alarms**
 - The two-channel inlet allows leaks to be localized efficiently even with high background concentrations
- **Low operating costs**
 - The use of durable and long-life components minimizes costs throughout the entire life of the product
- **Compatibility with modern communication systems**
 - Optionally available fieldbus systems enable perfect integration into industrial networks.
- **High availability**
 - The internal Cool Check reference leak can be exchanged quickly with the flick of a wrist
- **User-friendly operation**
 - The intuitive menu guidance makes it particularly easy to use the leak detector. The ergonomically shaped sniffer probe allows the device to be used even for long periods without operator fatigue.



The use of our refrigerant leak detectors helps to ensure that large quantities of environmentally harmful refrigerant do not enter the atmosphere.

USB INTERFACE

The USB interface not only allows measurement data to be transferred from the internal memory, it can also be used to save measurement values directly to a connected USB stick. The USB interface is also used for software updates. These can be carried out very easily by trained personnel.

SNIFFER TIP VARIANTS

The wide variety of sniffer tips ensures efficient leak detection even in locations that are difficult to access.



HLD6000

SPECIFICATIONS

Detectable trace refrigerants:	
With handheld probe for single gas detection	R600a/R290, R744 (CO ₂)
With universal Smart handheld probe	Halogen-based refrigerants
Minimum detectable leak rate:	
With handheld probe for single gas detection	1.0 g/a
With universal Smart handheld probe	0.5 g/a
Response time	< 1 s
Leak rate units	g/a, mbar l/s, oz/yr, lb/yr, Pa m ³ /s
Time until ready for operation	< 30 s
Digital inputs/outputs	10 inputs, 8 outputs (when used with I/O1000 module)
Serial interface	RS232 (when used with I/O1000 module) or fieldbus systems (when used with Profibus module, PROFINET IO module etc.)
Dimensions (diameter, height)	266 mm, 365 mm
Weight	4.5 kg
Permissible operating temperature	5–50 °C
Gas flow	320 sccm
Warranty	3 years

ORDERING INFORMATION

PRODUCT	CAT. NO.	PRODUCT	CAT. NO.
HLD6000 with R744 (CO ₂) handheld probe and adapter for R744 (CO ₂) calibration*	510-025	Sniffer tip 100 mm	511-021
		Sniffer tip 400 mm	511-024
HLD6000 with R600a/R290 handheld probe*	510-028	Sniffer tip 400 mm pre-bent to half circle	511-022
HLD6000 with Smart handheld probe and COOL-Check calibration leak	510-027	Extensions for sniffer tip	
The base units include a		400 mm	511-020
sniffer line (4.8 m) and a standard sniffer tip (100 mm).		500 mm, 45° angle	511-029
		Water protection tip	511-025
Handheld probes for interchanging with sniffer line (4.8 m):		Extension for handheld probe cable, 4.8m	511-040
R744 (CO ₂) handheld probe	511-045	Adapter for R744 (CO ₂) calibration	511-042
Smart handheld probe	511-047	Included with base unit HLD6000 with R744 (CO ₂) handheld probe.	
R600a/R290 handheld probe	511-048		
OPTIONS, ACCESSORIES		External test leak R134a, (2–5 g/a)	122 20
I/O1000 module (input/output module)	560-310	External test leak R600a, (2–5 g/a)	122 21
Profibus module	560-315	External test leak R290, (7–8 g/a)	122 31
PROFINET IO module	560-316	External test leak R744(CO ₂), (2–3.5 g/a)	122 32
DeviceNet module	560-317	External test leak R1234yf, (2–5 g/a)	122 35
Ethernet/IP module	560-318	External test leak R32, (2–8 g/a)	122 36S
Other fieldbus systems upon request		CONSUMABLE MATERIAL	
Data cable (HLD6000-I/O1000)		Filter holder for sniffer tip (20 units)	511-027
2 m cable length	560-332	Filter cartridges (20 units)	511-018
5 m cable length	560-335	Replacement COOL-Check	511-010
10 m cable length	560-340	(only for HLD6000 with Smart handheld probe)	
		Limited shelf life. Do not stockpile.	

*Without Cool-Check



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Due to our continuing program of product improvements, specifications are subject to change without prior notice.
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