



# HLD6000

Refrigerant Leak Detector



**LEAK TESTING FOR THE  
HIGHEST QUALITY DEMANDS**

# Maximum Efficiency During Leak Testing

INFICON is taking a further step toward leak detection at the highest level with the HLD6000 refrigerant leak detector. It is setting new standards in user-friendly handling, reproducibility of measuring results and integration into local networks.

The newly developed, slim and ergonomically shaped sniffer probe allows for more efficient leak detection. Furthermore, with its intuitive touchscreen display, the HLD6000 is even easier to operate than its predecessor the HLD5000. The HLD6000 also delivers the maximum in communication diversity. A USB interface as well as an optional I/O module and an optional fieldbus module are available for acquiring and using measurement data and integrating that data into local networks.

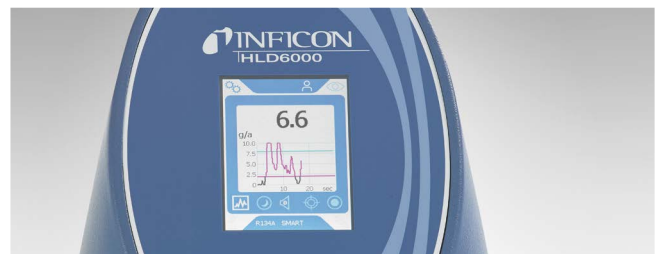
## COMPACT, LIGHT AND SLIM

For optimal, efficient leak detection a compact sniffer probe is especially important. The HLD6000 sniffer probe is not only extra slim, but also light and ergonomically shaped. Two LED lights in the sniffer tip simplify leak detection at poorly lit inspection locations, facilitate precise leak location, and notify the user by flashing when the allowable leakage rate is exceeded. A color LED status light continually alerts the operator about the operational readiness, measuring operation, exceeding you're the allowable leakage rate, as well as errors and warnings.



## TOUCHSCREEN DISPLAY

The new INFICON human-machine interface menu has intuitive menu navigation and makes using the leak detector especially easy. The leakage rate trend graphs any leaks on the easy-to-read front panel making leak detection even more efficient.



## INTERFACES AND NETWORKS

Integrating the HLD6000 into local networks is simple. The instrument offers a variety of analog and digital interfaces via the optional I/O module. An optional fieldbus module is also available. Besides transmitting measurement data from the internal memory, the USB interface also allows the user to store the measurement data directly to a connected USB flash drive. The USB interface is also used for easy software updates.

## ADVANTAGES AT A GLANCE

- Especially slim and ergonomically designed sniffer probe with status and LED lights
- Intuitive touchscreen with leakage rate graph
- USB interface for storing measurement data and for software updates
- HLD6000 components (probes, base units, consumables and accessories) are compatible/ interchangeable with its predecessor, the HLD5000
- Newly designed COOL-Check holder to easily exchange internal test leaks
- Optional I/O module and optional fieldbus module facilitate integration into local networks

## USER ADVANTAGES

With the HLD6000, INFICON combines the advantages of the industry-proven HLD5000 (proven under typical production conditions) with up-to-date technology.

### Detection system:

The long-life infrared sensor offers both greater sensitivity and an extremely short response time, and has been specifically developed for the detection of refrigerants. This helps eliminate false alarms due to water, solvents or other contaminants.

### Dual inlet system:

The proven dual inlet system continually compares the background concentration and the measured gas flow, thus reducing false alarms to a minimum.

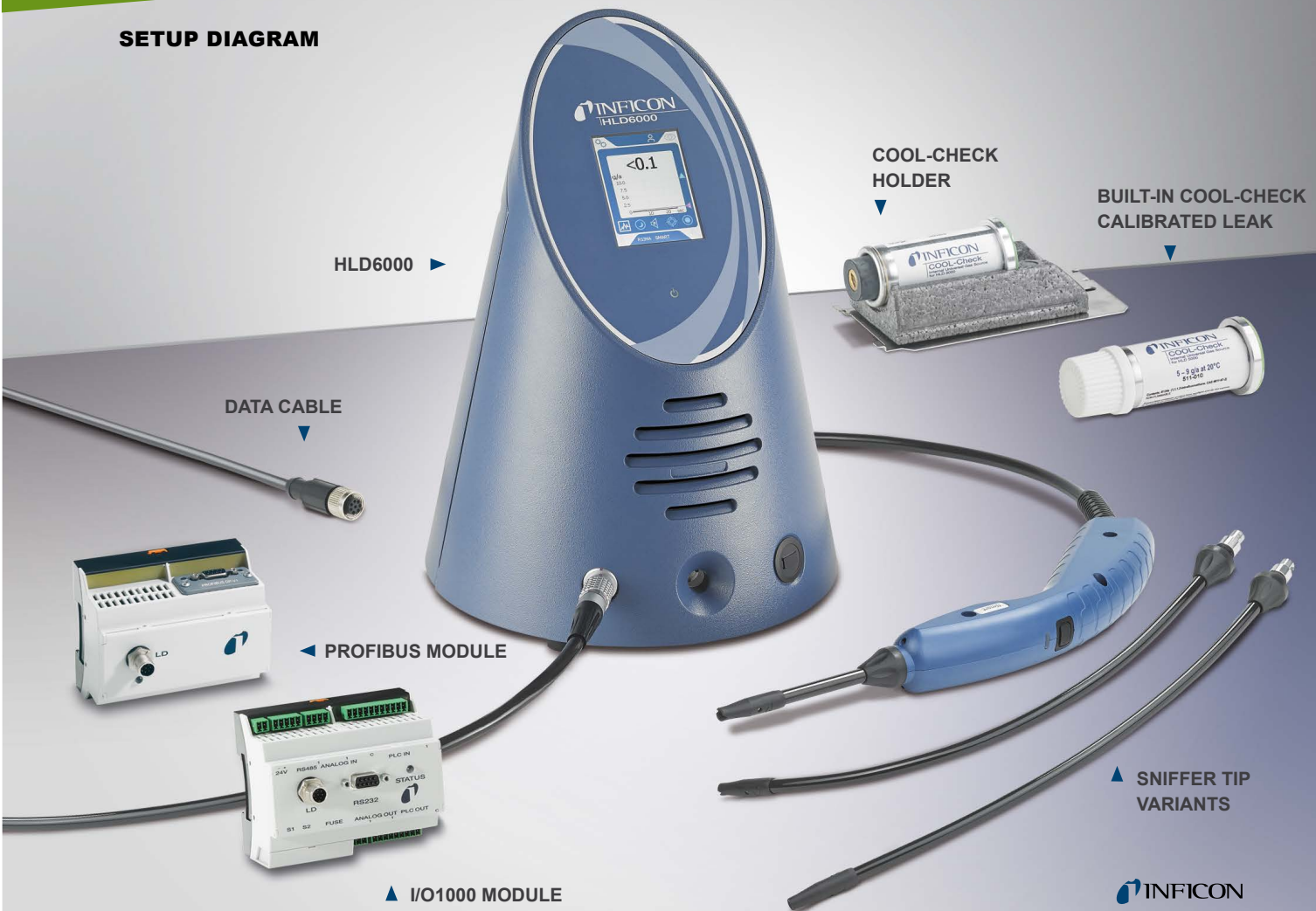
### Optimized sniffer probe:

The HLD6000 can be equipped with sniffer probes individually optimized to the gases to be detected. In addition to sniffer probes for CO<sub>2</sub> and for R600a/ R290, a universal Smart sniffer probe for halogen-based refrigerants is available.

### Low operating costs for service and maintenance:

Beyond the durable components, low service and maintenance costs were an important priority in developing the HLD6000. It uses a wear-free sensor which maximizes user uptime. Also, the redesigned COOL-Check holder allows you to replace the built-in test leak quickly, precisely, and is easily changed by hand.

## SETUP DIAGRAM



## TECHNICAL DATA

Detectable refrigerants: with sniffer probe for single gas detection with universal Smart sniffer probe	R600a/R290, R744 (CO <sub>2</sub> ) Halogen-based refrigerants
Minimum detectable leakage rate: with sniffer probe for single gas detection with universal Smart sniffer probe	1.0 g/a / 0.03 oz/yr 0.5 g/a / 0.014 oz/yr
Response time	< 1 s
Leakage rate units	g/a, mbar l/s, oz/yr, lb/yr, Pa m <sup>3</sup> /s
Warm-up time	< 30 s
Digital inputs/outputs	10 inputs, 8 outputs (for use with I/O1000 module)
Serial interface	RS232 (for use with I/O1000 module) or field bus systems (for use with Profibus module, PROFINET IO module etc.)
Dimensions (diameter; height)	266 mm, 365 mm / 10.25 in, 14.4 in
Weight	4.5 kg / 10 lb
Allowed operating temperature	5 - 50 °C / 40 - 120 °F
Gas flow	320 sccm
Warranty	3 years

## ORDERING INFORMATION

Base units:			
Product	Cat. no.	Product	Cat. no.
HLD6000 with R744 (CO <sub>2</sub> ) sniffer probe and adapter for R744 (CO <sub>2</sub> ) calibration*	510-025	Sniffer tip (100 mm / 3.9 in)	511-021
HLD6000 with R600a/R290 sniffer probe*	510-028	Sniffer tip (400 mm / 15 in)	511-024
HLD6000 with Smart sniffer probe and COOL-Check test leak	510-027	Sniffer tip (400 mm / 15 in) prebent to half circle	511-022
The base units contain a sniffer line (4,8 m / 15.5 ft) and a standard sniffer tip (100 mm / 3.9 in).		Extension for sniffer tip: 400 mm / 15.7 in	511-020
Sniffer probes to exchange with sniffer line (4.8 m / 15.5 ft)		500 mm / 19.7 in, 45° offset	511-029
R744 (CO <sub>2</sub> ) sniffer probes	511-045	Water protection tip	511-025
Smart sniffer probes	511-047	Extension for probe cable, 4.8 m / 15.5 ft	511-040
R600a / R290 sniffer probes	511-048	Adapter for R744 (CO <sub>2</sub> ) calibration	511-042
<b>Options, accessories:</b>		Included in HLD6000 base unit with R744 (CO <sub>2</sub> ) sniffer probe	
I/O1000 module (input / output module)	560-310	External test leak R134a, (2-5 g/a)	122 20
Profibus module	560-315	External test leak R600a, (2-5 g/a)	122 21
PROFINET IO module	560-316	External test leak R290, (7-8 g/a)	122 31
Device Net module	560-317	External test leak R744(CO <sub>2</sub> ), (2-3.5g/a)	122 32
Ethernet/IP module	560-318	External test leak R1234yf, (2-5 g/a)	122 35
Additional fieldbus systems upon request		External test leak R32, (2-8 g/a)	122 36S
Data cable (HLD6000-I/O1000)		<b>Consumables:</b>	
2 m cable length	560-332	Set of tip filter holders (20 pcs.)	511-027
5 m cable length	560-335	Set of filter cartridges (20 pcs.)	511-018
10 m cable length	560-340	Replacement COOL-Check reference leak (only for HLD6000 with universal Smart probe) limited shelf life, purchase only when needed.	511-010

\*without COOL-Check



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

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