HLD6000 CO$_2$ Leak Detector

Precise leak testing for food packaging.

Food manufacturers around the world rely on protective gas atmospheres to preserve product quality and shelf life. To ensure that this protective gas doesn't escape - and that product safety remains intact - packages must be tested for leaks. So why not use the CO$_2$ already present in the packaging for leak detection? The HLD6000 CO$_2$ leak detector makes this possible: precise, efficient, and without the need for additional test gas. A clean, reliable solution for the food industry.

Efficient Leak Detection with CO$_2$

Strict leak-tightness requirements and short cycle times demand fast and accurate testing. The HLD6000 CO$_2$ enables reliable, non-destructive leak detection - without introducing additional test gas into the packaging.

Leaks detected by the Contura S-Series from INFICON are precisely located by the HLD6000 CO$_2$, regardless of packaging shape, contents, or material. Alternatively, the device can also be used as a stand-alone solution. Thanks to its patented dual-channel inlet system and durable infrared

absorption sensor, the HLD6000 CO$_2$ compensates for fluctuating background concentrations and ensures accurate measurement results.

ADVANTAGES AT A GLANCE

✓ Detects leaks smaller than 1 µm

✓ Non-destructive testing

✓ Patented dual-channel inlet system for reliable measurements

✓ Optimized infrared sensor for increased sensitivity

✓ Fast response time under one second – no waiting

✓ Ergonomic sniffer probe with status and illumination LEDs

✓ Intuitive touchscreen with leak rate trend display

✓ USB interface for data storage and software updates

✓ User interface available in eight languages

✓ External test leaks for CO$_2$ calibration

TYPICAL APPLICATIONS OF CO$_2$ LEAK DETECTION

• Modified atmosphere packaging (MAP) with a CO$_2$ concentration

• Coffee packaging

HLD6000 CO$_2$ LEAK DETECTOR

SPECIFICATIONS

Detectable protective gas	CO$_2$ or CO$_2$ mixtures
Smallest detectable hole diameter	<1 µm
Response time	< 1 s
Leak rate units	mbar · l/s, g/a, oz/yr, lb/yr, Pa m^3/s
Time to operational readiness	< 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

BASE UNITS:

Products	Cat. No.
HLD6000 with CO$_2$ hand probe and adapter for CO$_2$ calibration The base units include a sniffer line (4.8 m) and a standard sniffer tip (100 mm).	510-025
Replacement CO$_2$ hand probe with 4.8 m sniffer line	511-045

OPTIONS, ACCESSORIES:

I/O1000 module (input / output module)	560-310
Profibus module PROFINET IO module Device Net module Ethernet/IP module Other fieldbus systems on request	560-315 560-316 560-317 560-318
Data cable (HLD6000-I/O1000): • 2 m cable length • 5 m cable length • 10 m cable length	 560-332 560-335 560-340

Products	Cat. No.
Sniffer tip 100 mm Sniffer tip 400 mm Sniffer tip 400 mm pre-bent to half circle	511-021 511-024 511-022
Extensions for sniffer tip: • 400 mm • 500 mm, 45 ° angled	 511-020 511-029
Water protection tip	511-025
Extension for hand probe cable (4.8 m)	511-040
Adapter for CO$_2$ calibration (in basic device HLD6000 with CO$_2$ handprobe)	511-042
External test leak CO$_2$ (2-3 x 10^{-5} mbar·l/s)	122 32

CONSUMABLES:

Filter holder for sniffer tip (20 pieces) Filter cartridges (20 pieces)	511-027 511-018

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