



# Modular Leak Detector LDS3000

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## ULTRATEST Technology™

### Compact Performance at the Highest Level

With the LDS3000, INFICON is opening a new chapter in the success story of leak detection systems. The successor to the LDS2010 is setting new standards for accuracy, reproducibility of measurement results and speed of leak detection.

The LDS3000 is extremely compact. The small dimensions, 13 X 9.45 X 11.1 in. (330 X 240 X 280 mm), make it even easier to integrate it into leak detection systems. More importantly, the space requirements and installation expense have been reduced even further by dispensing with a 19" control module and improving the cabling considerably. In addition, there is an optional touch screen for easy operation and an optional field bus connection.



## BENEFITS

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## ■ MORE COMPACT AND EASIER TO INTEGRATE

Optimizing space requirements and installation costs – that is the fine art of systems engineering. Small dimensions, a significantly more compact design and improved cabling are the LDS3000's answer to these challenges for leak detection systems. Its performance is not only better than its predecessor the LDS2010, but is so much more compact in its design that integration into leak detection systems is easier and more flexible. In addition, there are individualized, custom configuration possibilities such as touch screen operation or connection to field bus systems, which are available as an option.

## ■ COMMUNICATIVE DIVERSITY

The LDS3000 includes a wide range of analog interfaces, as well as a variety of digital interfaces. RS232, RS485, USB and optional Profibus a variety of users' needs.

## ■ HIGH RELIABILITY

The LDS3000 provides both high throughput rates and great quality and reliability. Downtimes and frequent maintenance are a thing of the past. Calibration times of 20 seconds are especially fast, but are seldom needed. Leak rates of up to  $1 \times 10^{-11}$  mbar l/s are detected in less than 1 second.

## FEATURES

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- Compact design allows individualized, custom integration into leak detection systems
- Communicative diversity through a wide range of analog and digital interfaces
- Considerably improved cabling
- Fast, optimized response times with I-CAL
- LDS2010 compatibility mode
- The new, patented routine allows calibration of the LDS3000 within 20 seconds.

## ORDERING INFORMATION

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Type	LDS3000
BM1000 Busmodule (Profibus)	560-315
Data Cable 10m LDS3000	560-340
Data Cable 5m LDS3000	560-335
I/O Module	560-310
LDS3000 Leak Detector (additionally 1 data cable and a I/O-Module or BM1000-Module needed)	560-300

## SPECIFICATIONS

Type		LDS3000
Min. detectable leak rate for Helium "ULTRA"-Mode	mbar•L/s	<1E-11
Min. detectable leak rate for Helium "FINE"-Mode	mbar•L/s	<5E-11
Min. detectable leak rate for Helium "GROSS"-Mode	mbar•L/s	<1E-9
Min. detectable leak rate for Helium "Sniffer"-Mode	mbar•L/s	<1E-7
Measuring units		mbar•L/s, Pa•m <sup>3</sup> /s, Atm cm <sup>3</sup> , g/a, ppm
Max. inlet pressure "ULTRA"-Mode	mbar	0.2
Max. inlet pressure "FINE"-Mode	mbar	0.9
Max. inlet pressure "GROSS"-Mode	mbar	18
Response time	s	<1
Digital inputs/outputs (if used with I/O-Modul)		10 inputs/8 outputs
Control input	V	max. 35 (SPS compatibel)
Ion Source		2 yttrium/iridium long-life cathodes (3 years guarantee)
lin/log recorder output	V	0-10
Serial interface		RS232, RS485, fieldbussystem
Dimensions (L x W x H)	mm	330 x 240 x 280
Dimensions (L x W x H)	in.	13 x 9.45 x 11.1
Ambient temperature range	°C	10 - 45
Ambient temperature range	°F	50-113
Vacuum connections		DN 16 KF, DN 25 KF

For the operation of the LDS3000 you need as basis one data cable and a I/O-Modul or BM1000-Modul

## SPAREPARTS

		LDS3000
Replacement Sniffer tip, 400 mm		20004642

## ACCESSORIES

	LDS3000
CU1000 Control unit (additional 1 data cable needed)	560-320
DIN Rail Power supply 24v, 10A	560-324
Internal Helium Test Leak TL7 for LDS3000	560-323
Pump-Modul, D4B, AC-motor, 230 Volt	14511
Sniffer line, 10m	14523
Sniffer line, 3m	14521
Sniffer line, 5m	14522
Sniffer valve	14520



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