

Protec P3000 (XL) Helium Leak Detector

Efficient leak detection - moderate cost



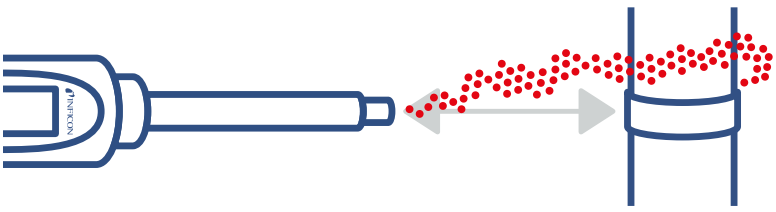
INFICON

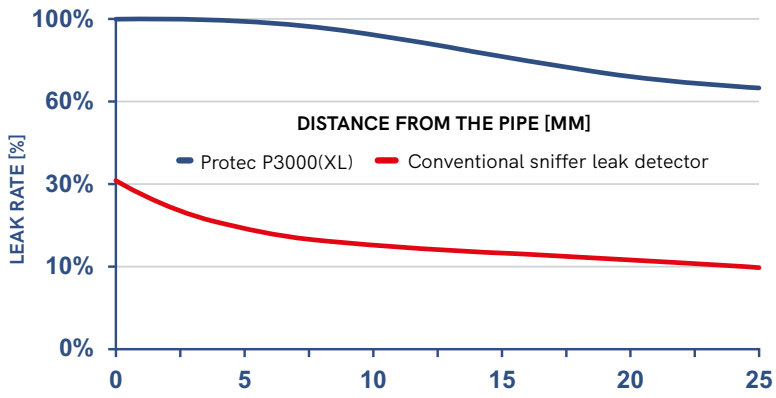
Protec P3000 – The best helium leak detector in its class

Cost-effective, reliable and virtually maintenance-free: The high performance leak detector for harsh industrial environments

Particularly in use under harsh production conditions, the Protec P3000 has proven itself, even in three-shift operation. Our INFICON Wise Technology™ sensor does not require vacuum or a turbomolecular pump. This is how our Protec series sets new standards in productivity, reliability and operating costs.

The Protec P3000 has proven itself in all industrial sectors where leak tightness is of particular importance, such as in the testing of systems and components in the areas of refrigeration/air conditioning, the automotive industry and new energy. Thanks to fast response times, the Protec P3000(XL) optimally utilizes the available cycle times. Numerous functions ensure easy and comfortable use, even by inexperienced operators.





RELIABLE, EVEN WITH IMPRECISE HANDLING

In addition to having a long service life and being maintenance-free, the INFiCON Wise Technology sensor makes our sniffer leak detectors something unique: The Protec P3000XL has the highest gas flow on the market - up to 3000 sccm. This means that you can still detect leaks efficiently even if you move the sniffer tip at a greater distance away from or at a higher speed over your test part.

QUALITY YOU WILL MEASURE

Because we have designed the Protec P3000(XL) so that the gas flow through the sniffer line is particularly high, it can still identify leaks from a significant distance away.

For example, you will also quickly and reliably detect leaks on the back of a pipe joint.

EFFICIENT AND PRODUCTIVE

The Protec P3000 series has numerous features that increase the efficiency and reliability for your sniffer leak detection. The I·Guide mode guides the user during leak detection so that he checks all the necessary connections with the correct technique. The integrated lighting in the sniffer tip makes it easy to hit the test points precisely.

The P3000(XL) can also be easily and quickly calibrated with the internal reference leak. This guarantees the continuous validity of your sniffer leak detection.

MULTIPLE ALARM FUNCTIONS

Redundant alarms ensure that the operator does not miss a leak that exceeds the preset rejection rate: the background color in the handle display changes from green to red, the LEDs for lighting the sniffer tip start flashing, the entire handle vibrates, and an audible alarm sounds.

PROTEC P3000RC FOR INTEGRATED LEAK DETECTION SYSTEMS

The INFICON Protec P3000RC is another member of the Protec P3000 family. It is ideal for integration into automated leak detection systems that do not have access to a built-in device display.

For setup and maintenance work, the Protec P3000RC can be connected to an external control unit, while the sniffer line display is sufficient for daily operation. Two small LEDs in the housing indicate the status (Ready, Error, etc.).





HIGH FLOW AT 3000 SCCM

- Unique in the market: Gas flow up to 50 times greater than conventional devices
- Reliable leak detection, even in hard-to-reach places
- This makes leak detection faster and less user-dependent
- Highest sensitivity, even at a greater distance or at a higher speed

cTÜVus CERTIFIED (NRTL APPROVED)



YOUR BENEFITS AT A GLANCE

- **Low operating costs**
  The INFICON Wise Technology helium sensor does not need a vacuum, turbopump, or maintenance.
  This lowers your operating costs and avoids downtimes.

- **Fast and reliable**
  Reliable localization of even the smallest leaks, with fast response times and without faulty measurements. Even short cycle times are used optimally.

- **Reliable leakage detection**
  The INFICON High Flow at 3000 sccm reliably detects leakages, even in the case of imprecise handling.

- **Redundant leak alarms**
  Redundant alarms via sounds, lights, and vibrations make sure that you do not miss a leak. And, on the display in the handle, you always have the leak rate in view.

- **Complete operator guidance**
  The I·Guide mode can be used to define the leak positions to be checked with time sequences and repetition rates. As a result, even the most inexperienced operator can efficiently detect leakages.

INTELLIGENT SNIFFER PROBE

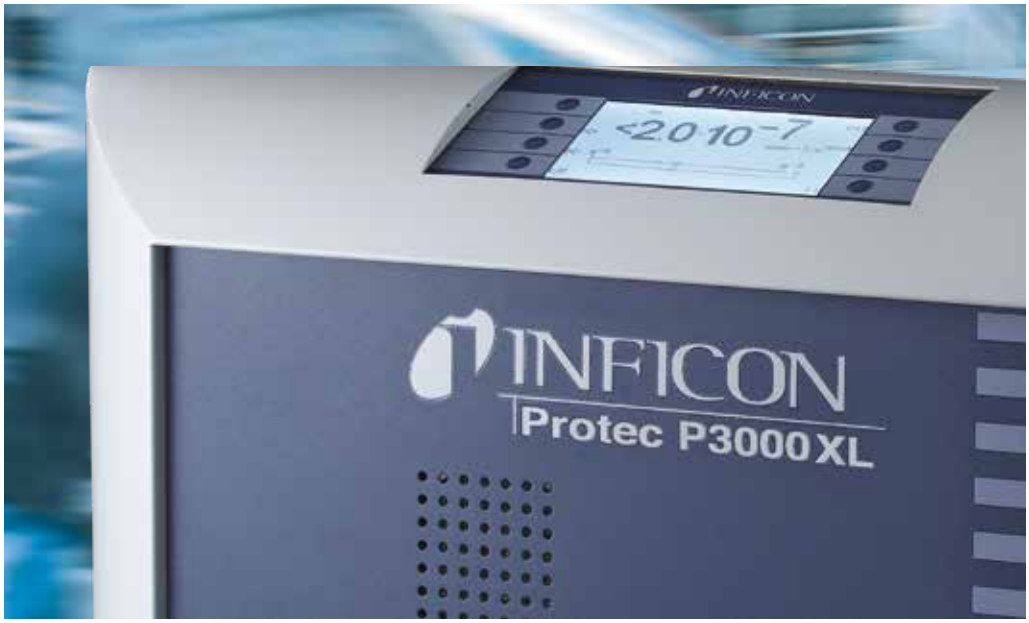
- The ergonomically designed sniffer probe always displays the measured leak rate on an integrated display
- Users can focus on the sniffing process while monitoring the leak rate
- The vibration and alarm feature of the handle alerts the operator when the trigger level is exceeded



LOW FLOW AT 300 SCCM

- 300 sccm: The optimal flow for pinpoint localization of escaping tracer gas
- Quickly switch from High Flow to Low Flow to accurately locate displayed leaks





Premium Quality
made in Germany

The best choice for the highest performance

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

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.

PROTEC P3000 (XL) HELIUM LEAK DETECTOR

TECHNICAL SPECIFICATIONS

	PROTEC P3000	PROTEC P3000XL
Minimum detectable leak rate	1 x 10^{-7} mbarl/s	1x10^{-6} mbarl/s @ 3000 sccm 1x10^{-7} mbarl/s @ 300 sccm
Measurement range	5 decades	4 decades @ 3000 sccm 5 decades @ 300 sccm
Sensor response time	450 ms	
Response time including sniffer line	< 0.7 s	
Leak rate units	mbar l/s; Pa m^3/s; ppm	
Leak rate units for refrigerant equivalents	g/a; oz/yr; lb/yr	
Run-up time	approx. 5 min	
Dimensions (width x depth x height)	610 x 265 x 370 mm	
Weight	27 kg	
Gas flow	300 sccm	300/3000 sccm
Ambient temperature	10-45 °C	

ORDERING INFORMATION

PRODUCT	CAT. NO.
Protec P3000	
230 V, 50 Hz	520-001
100/115 V, 50/60 Hz	520-002
Protec P3000XL	
230 V, 50 Hz	520-003
100/115, 50/60 Hz	520-004
Remote control version without external control unit	
Protec P3000, RC, 230 V, 50 Hz	520-103
Protec P3000, RC, 110/115 V, 50/60 Hz	520-104
Protec P3000XL, RC, 230 V, 50 Hz	520-105
Protec P3000XL, RC, 110/115 V, 50/60 Hz	520-106
External control unit for the Protec P3000R	
Table top version	551-100
Rack version	551-101
Connection cable for display unit	
5 m length	551-102
0.7 m length	551-103
Sniffer line for the Protec P3000 with integrated display and push buttons	
SL3000-3, 3 m length	525-001
SL3000-5, 5 m length	525-002
SL3000-10, 10 m length	525-003
SL3000-15, 15 m length	525-004
Sniffer line for the Protec P3000 with integrated display and push buttons	
SL3000XL-3, 3 m length	521-011
SL3000XL-5, 5 m length	521-012
SL3000XL-10, 10 m length	521-013
SL3000XL-15, 15 m length	521-014
Sniffer line adapter for system integration	
for the Protec P3000	525-005
for the Protec P3000XL	521-015

PRODUCT	CAT. NO.
Sniffer tips for the SL3000 (Protec P3000)	
ST 312, 120 mm, rigid	12213
FT 312, 120 mm, flexible	12214
ST 200, 200 mm, rigid	12218
FT 250, 250 mm, flexible	12266
ST 385, 385 mm, rigid	12215
FT 385, 385 mm, flexible	12216
FT 600, 600 mm, flexible	12209
ST 400, 400 mm, 45° angled	12272
Sniffer tips for the SL3000XL (Protec P3000XL)	
ST312XL, 120 mm, rigid	521-018
FT312XL, 120mm, flexible	521-019
ST385XL, 385 mm, rigid	521-020
FT385XL, 385 mm, flexible	521-021
FT250XL, 250 mm, flexible	521-022
PRO-Check reference leak - Optional	
(not included with delivery of the Protec P3000)	521-001
PRO-Check replacement gas cartridge	521-010
Calibrated test leak for helium	
S-TL 4, for leak rates up to 10^{-4} mbar l/s	122 37
S-TL 5, for leak rates up to 10^{-5} mbar l/s	122 38
S-TL 6, for leak rates up to 10^{-6} mbar l/s	122 39
Holder for sniffer line	525-006
Cover for reference leak port	525-007
Water protection tip for SL3000	122 46
Oil/water protection tip	521-016
Replacement filter for protection tip	521-017
XL filter cartridge	521-018

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