



INFICON
Inspired by visions. Proven by success.

The best choice for high measurement accuracy and reliability

INFICON offers the world's leading technology in the field of measuring and sensor technology as well as process control for sophisticated vacuum processes in highly specialized industries. INFICON products for gas leak detection are used, in particular, in the refrigeration and air conditioning sectors, in semiconductor manufacturing and in automobile production. With INFICON, you have a competent partner at your side who is familiar with the challenges of your industry and, working together with you, finds the best solution to meet your requirements. INFICON specialists at numerous branches worldwide provide top service and the broadest possible support. State-of-the-art production facilities are located in the USA, Europe and Asia.

T-GUARD2

| SPECIFICATIONS | |
|---|---|
| Minimum detectable helium leak rate | 1 x 10 ⁻⁸ mbar l/s |
| Measurement range | 5 decades |
| Test chamber pressure | 1 atm |
| Maximum carrier gas flow | 1,000,000 sccm |
| Probe gas flow Fine / Gross | 180 sccm / 90 sccm |
| Time constant of the leak rate signal | < 1 s |
| Helium sensor | Wise Technology™ |
| Run up time | < 3 min |
| Hose connectors | 6 mm |
| Control inputs | 6 x PLC compatible (max. 35 V) |
| Status / Trigger outputs | 8 x relay contacts (max. 25 V AC / 60 V DC / 1 A) |
| Chart recorder output lin/log | 2 x 0-10 V, programmable |
| Power supply demand / power consumption | 24 V DC / 100 W |
| Type of protection | IP20 |
| Dimensions (L x W x H) | 272 x 130 x 272 mm; 10,7" x 5,1" x 10,7" |
| Weight | 6,8 kg / 15 lbs |
| Noise level dB (A) | < 56 |
| Recommended fore pump | two-stage diaphragm |

| ORDERING INFORMATION | |
|--|----------------|
| PRODUCT | CAT.-NO |
| T-Guard2 Leak Detection Sensor | 540-200 |
| T-Guard2 Leak Detection Sensor with Profibus | 540-201 |
| OPTIONS, ACCESSORIES | |
| Display unit for table-top use | 551-100 |
| Display unit for rack installation | 551-101 |
| Connecting cable for display unit, 5 m | 551-102 |
| Connecting cable for display unit, 1 m | 551-103 |
| Set of connecting plugs | 551-110 |
| I-Stick | 200 001 997 |



Leak testing prevents large quantities of environmentally harmful substances from being released into the atmosphere.

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Due to our continuing program of product improvements, specifications are subject to change without notice.
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T-Guard2™

Leak Detection Sensor

Best Performance
for Accumulation



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T-Guard2 – A Class of its own in Accumulation

COST EFFECTIVE, RELIABLE AND ALMOST MAINTENANCE-FREE

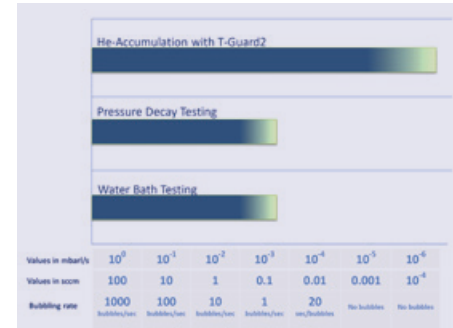
T-Guard2 Leak Detection Sensor closes the gap between costly hard vacuum helium leak detection and low sensitivity leak testing methods like water bath and pressure decay. There is no faster and more cost-effective way of repeatable leak testing in the measurement range of T-Guard2.

The T-Guard2 Leak Detection Sensor is based on the maintenance-free INFICON Wise Technology™, proven successfully used under harsh conditions for over a decade. There is no need for expensive vacuum chambers and the costly, maintenance-intensive turbomolecular pumps.

UP TO 100 TIMES MORE PRECISE

With T-Guard2, INFICON offers a unique leak detector which can be simply

integrated into a leak test system and provides unmatched accuracy. With the improved Wise Technology sensor, T-Guard2 determines leaks down to E-6 mbar/s and finds smaller leaks than many traditional leak testing methods can.



PRECISION MEETS RELIABILITY

T-Guard2 does not require vacuum or turbomolecular pump. T-Guard2 sets new standards in precise productivity and proven reliability.

ADVANTAGES AT A GLANCE

Low operating cost

The INFICON Wise Technology helium sensor does not need a vacuum, turbo-pump, or maintenance. This lowers your operating costs and assures high uptimes

No limitation of product properties

Even warm or humid objects, and those can not be well operated under vacuum can be leak tested

Simple and low cost chamber

T-Guard2 works at atmospheric pressure, therefore there is no need for vacuum chambers and pumps

Find all leaks reliably

With INFICON Wise Technology leaks down to E-6 mbar/s can be detected reliably

Easy to use

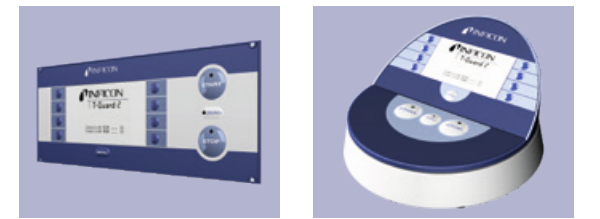
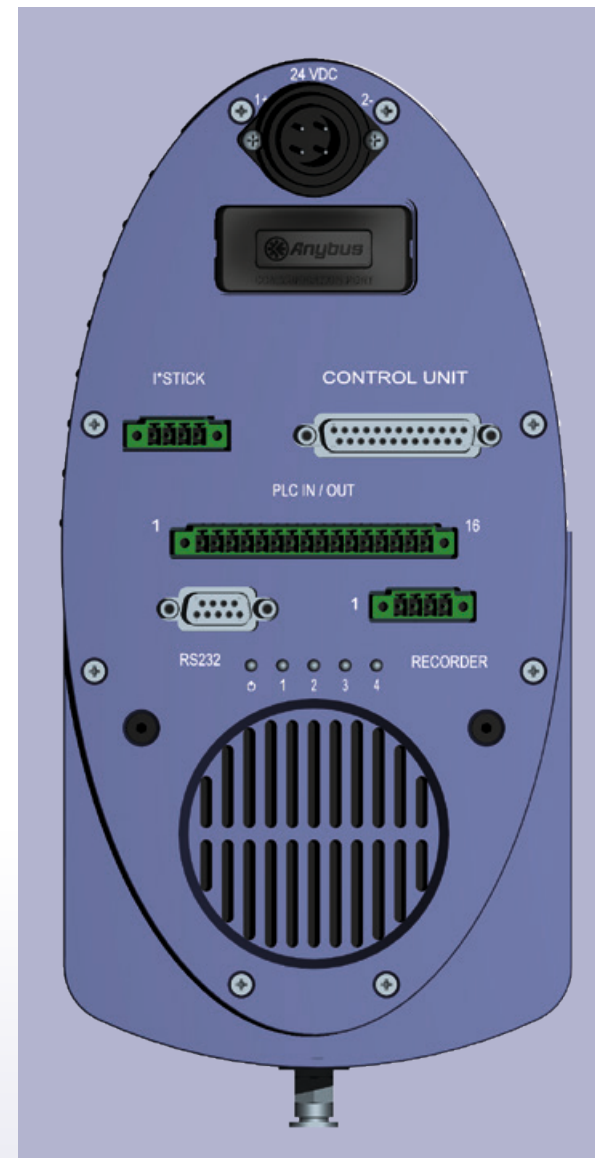
The intelligent software and optional display units supply easy operation through an intuitive menu structure.

Flexible control

INFICON T-Guard2 allows a wide range of control options. You can choose between PLC, PC or optional display and Profibus.

INTERFACES

- Control with PLC and PC interfaces



DISPLAY UNIT

Optional display units supply easy operation through an intuitive menu structure.



PROFIBUS CAPABLE

State of the art communication through Profibus optional.

THE ACCUMULATION METHOD

In carrier gas mode, a suitably sized stream of air passes the test object. This stream transports the helium from any given leak to T-Guard2 Leak Detection Sensor. It measures the helium concentration in the gas stream and reports the actual leak rate to the user.

