



## T-Guard Leak Detection Sensor

### The Sensitivity of Helium Leak Detction at a Pressure-Decay System price

INFICON T-Guard Leak Detection Sensor delivers the sensitivity and speed helium leak detectors are known for, at a cost similar to pressure decay systems. T-Guard works with simple chambers at atmospheric pressure, so there is no need for costly and complex high vacuum chambers and pumps. That makes automated systems based on T-Guard an attractive alternative to pressure decay and water bath leak detection, providing up to 100 times the sensitivity with low cost of ownership and high ease of use. The measurements are also highly repeatable, even with large, warm or humid test objects.



#### BENEFITS

- T-Guard Leak Detection Sensor brings increased levels of productivity, reliability and sensitivity to any stage of production when testing automotive components, valves and similar products.

## FEATURES

---

- Up to 100 times more sensitive than pressure decay and water bath
- Detects  $3 \times 10^{-4}$  mbar l/s (0.018 sccm) in a 10 l chamber in less than 20 seconds
- Works at atmospheric pressure - no need for costly vacuum chamber or high vacuum pump
- Maintenance-free INFICON Wise Technology , proven in more than 1000 systems
- Measurements are not affected by temperature and humidity
- Simple design maximizes reliability, reduces cost of ownership
- Small and light for easy integration in any system
- Multiple measurement modes for flexibility
- Designed for automated systems
- •Flexible control by PLC, PC, Profibus or optional display unit

## ORDERING INFORMATION

---

Type	T-Guard Leak Detection Sensor
T-Guard Leak Detection Sensor	540-001

## SPECIFICATIONS

Type		T-Guard Leak Detection Sensor
Minimum detectable leak rate	mbar•L/s	1E-6
Measurement range		5 Dekaden
Test chamber pressure		1 atm (Atmosphäre/Normaldruck)
Operation modes		2 automatisch, 1 fortgeschritten
Maximum carrier gas flow	sccm	1.000.000
Probe gas flow FINE/GROSS	sccm	180 / 90
Time constant of the leak rate signal	s	<1
Run up time	min	<3
Control inputs		6 x SPS Kompatibel (max.35V)
Status / Trigger outputs		8 x Relaiskontakte (max. 60V DC / 25V AC / 1A)
Chart recorder output lin/log		2 x 0 - 10V, konfigurierbar
Recommended fore pump		Membranpumpe, zweistufig
Power supply demand	V (dc)	24
Typical power consumption	Watt	100
Hose connectors	mm	6
Type of protection		IP 40
Dimensions (LxWxH)	mm	258x130x272
Dimensions (LxWxH)	in.	10.2x5.1x10.7
Weight	kg	4,5
Weight	lb.	10

## ACCESSORIES

T-Guard Leak Detection Sensor	
cable 5 m, fits to 551-100	551-102
Connecting cable ext. display unit, 0.7m	551-103
Display unit, rack mounting	551-101
Display unit, table top	551-100



[www.inficon.com](http://www.inficon.com)    [reachus@inficon.com](mailto:reachus@inficon.com)

Due to our continuing program of product improvements, specifications are subject to change without notice.  
RateWatcher is a trademark of INFICON. All other trademarks are the property of their respective owners.

(2013-05)    © 2013 INFICON