

Sensistor® Sentrac® Hydrogen Leak Detector

Ideal for finding small and big leaks



Accurate Leak Location on Food Packages

All over the world food manufacturers strive to deliver high quality and long shelf life products. Packages may need to be leak tested to prevent food quality degradation and compromising safety for the consumer. Sensistor Sentrac Hydrogen Leak Detector offers a clean, reliable leak detection solution to the food market.

ADVANTAGES AT A GLANCE

- Leak testing of packages after filling and sealing
- High sensitivity for leak location of very small leaks
- Rapid recovery for quick test throughput
- Clean and dry leak detection method
- Inexpensive and safe tracer gas, approved as food additive (E949, E941)

RAPID LEAK LOCATION WITH HYDROGEN

High tightness requirements and short cycle times within the food industry make quick and reliable leak testing of packages extremely important. Sentrac Hydrogen Leak Detector allows for quick and reliable leak location responding perfectly to market needs. The instrument is characterized by high sensitivity and rapid recovery time, which makes it the ideal choice for pinpointing all leaks, even that minute leak occurring after a large one. Together with the Contura® Seal Tester from INFICON, the Sentrac leak detector makes the winning combination for detecting and locating leaks on food packages, no matter the form, the content or the packaging material. The detector can also be used as a stand-alone solution.

SNIFFER METHOD

This method is well suited each time there is a need to identify the exact location of the leak after a leaking package has been rejected. In practice, after the integral test with the Contura Seal Tester indicates the presence of a leak, the package is filled with hydrogen tracer gas. Hydrogen escaping from the leaking seal will be detected by the sniffer probe. Once the leak has been located it is possible to repack the content or reseal the package.

SAFE TRACER GAS

Hydrogen tracer gas is particularly suited for leak testing applications as it is a safe and inexpensive standard mix of 5% hydrogen (E949) and 95% nitrogen (E941). These gases are commonly used as packaging gases and are approved as food additives.



SENSISTOR SENTRAC HYDROGEN LEAK DETECTOR

SPECIFICATIONS

Min. detectable leak (Locating Mode)	5 x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Min. detectable leak (Measuring Mode)	0.5 ppm H ₂ ; 5x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Start time	40 sec
Calibration	External test leak or calibration gas
In- and outputs	Probe Control Port (Digital 5 in/15 out), 24V (dc) USB-C (RS232, USB-Memory) BM1000 (Expansion Communication Module)
Maintenance	Maintenance free
Power supply	Desktop model: 100–240 V (ac), 50/60 Hz, 67 W max. load Portable model: Internal rechargeable battery* (Li-Ion) Panel model: 24 V(dc), 2.2 A
Dimensions (W x H x D)	Desktop model: 305 x 166 x 188 mm (12 x 6.5 x 7.4 in.) Portable model with case: 330 x 200 x 280 mm (12.9 x 7.8 x 11 in.) Panel model: 305 x 155 x 144 mm (12 x 6.1 x 5.7 in.)
Weight (exclusive probe and probe cable)	Desktop model: 3.5 kg (7.7 lb.) Portable model: 4.0 kg (8.8 lb.) Panel model: 2.2 kg (4.8 lb.)
Operating time (battery model)	15 hours
Charge time (battery model)	14.5 hours (8h charging give about 8h operation)

* Charged using adapter supplied, 100-240 V, 50/60 Hz, 0.3 A

ORDERING INFORMATION

PRODUCT	Cat. no.
Leak Detector	
Sensistor Sentrac, desktop model	590-970*
Sensistor Sentrac, portable model	590-971
Sensistor Sentrac, panel model	590-972
Probes	
Strix Hand Probe, rigid neck	590-730*
Strix Flex Hand Probe, flexible neck	590-740
C21 Probe cables	
3 m (9.8 ft.)	590-161*
6 m (19.6 ft.)	590-175
9 m (29.5 ft.)	590-165
ACCESSORIES	
Calibration Leaks	See separate data sheet
SPARE PARTS	
Replacement Sensor for Strix Hand Probe	590-290
Strix Probe Tip Protection Caps 50-pack	590-300
Strix Probe Tip Protection Caps 500-pack	590-305
Strix Probe Tip Filters 50-pack	590-310

* Recommended kit



www.inficon.com reachus@inficon.com

Due to our continuing program of product improvements, specifications are subject to change without notice.
nibb65en1-3 (2401) ©2024 INFICON