Sensistor® Sentrac® Hydrogen Leak Detector



Ideal for finding small and big leaks.

INFICON

Fast Hydrogen Leak Detection for Finding All Leaks

A leak can be microscopic. It can also be large or even huge. The problem is that, even if you are searching for small leaks only, leaks can be unexpectedly large and your leak detector should be able to handle them too – without becoming saturated.

The need to find all leaks affects the choice of the perfect leak detector for any given situation. With our renowned hydrogen leak detector Sensistor Sentrac, we make that choice quite a bit easier.

Known for its high sensitivity, its wide dynamic leak range and its short recovery times, Sensistor Sentrac has proven to be a perfect instrument for leak detection in production and maintenance.

Detect a wide range of leak sizes

Sensistor Sentrac is the perfect fit for industrial applications where it is important to locate leaks quickly and where leak testing in the production flow must not be impeded by any individual large tracer gas leak. The instrument detects from very small to huge leaks and is the ideal choice for testing products that should be leak tight for fluids.

With its Strix™ sensor, Sentrac not only features even quicker reaction times, but also much faster recovery than its predecessor. In essence, this means that you are now able to find those smaller leaks more easily – without ever compromising your ability to find the larger ones as well. It also means that you will be ready for a small leak right after you have detected a huge leak.

Low cost of ownership

Sensistor Sentrac uses inexpensive forming gas (5% hydrogen in nitrogen) as tracer gas. In addition, with a longer sensor lifetime, no moving parts and no need for maintenance, the instrument lowers your total cost of ownership making it a great choice.



ADVANTAGES AT A GLANCE

- ✓ Faster throughput for locating tasks
- ✓ Reduces risk of missing small leaks
- ✓ Finds and withstands the widest range of leak sizes
- ✓ Battery model for true portability
- ✓ Truly intuitive search modes
- ✓ Resilient to high tracer gas backgrounds
- ✓ More effective than soap spray
- ✓ Longer sensor lifetime
- ✓ Low cost of ownership

TYPICAL MARKETS

Suitable for a broad spectrum of production applications within:

- HVAC/R
- Mobility & Automotive
- Battery
- Industrial Manufacturing

SENSISTOR SENSOR TECHNOLOGY

Sensistor Sentrac incorporates the proven Sensistor sensor technology developed for using forming gas (5% hydrogen in nitrogen) as tracer gas. These hydrogen gas sensors, which rely on diffusion, are extremely sensitive and selective.

DETECTOR MODELS

For added flexibility, the Sensistor Sentrac leak detector is available in desktop, portable and panel models.

1. Stationary desktop model – for operation with AC power. This instrument has a small footprint for effective leak detection in a variety of production environments.

INTUITIVE INTERFACE

- Large and bright full color touch display with high resolution
- Possibility to choose between three modes (Locating, Measuring and Combined Mode)
- Password protected user levels



STRIX SENSOR

- Faster reaction and recovery time, makes it easier to find small leaks
- Extended sensor life, spend less time and money on sensor replacement
- Accurate detection of a variety of leak sizes
- Easy sensor change

IMPROVED COMMUNICATIONS

- USB-C for recipe back-up, data storage and PC connection
- Probe cable connectors on both detector front and back
- Fieldbus Interface for Profibus, PROFINET, DeviceNet and Ethernet/IP



2. Battery-powered portable model – with long operation life per charge, is the perfect choice to easily serve multiple production or repair lines.

3. Panel model – has the same functions as the desktop model, but is designed for panel mounting into fully or semi-automatic leak detection systems.





ROBUST PROBE CABLES

- For use in tough industrial environments
- In lengths of 3, 6 and 9 meters (9.8, 19.6 and 29.5 ft.)

VERSATILE ACCESSORIES FOR SEAMLESS OPERATION

P60 hand probe

The right choice for installed-base users and for leak detection applications where better selectivity and robustness are required.



Calibration leaks

Used for calibration and function tests of the Sensistor Sentrac, to maintain consistent leak detection results.



Probe tip filters and protection caps

Protect the probe tip from dust and moisture, as well as from mechanical damage during use, for example on scratched metal surfaces.



STRIX HAND PROBE

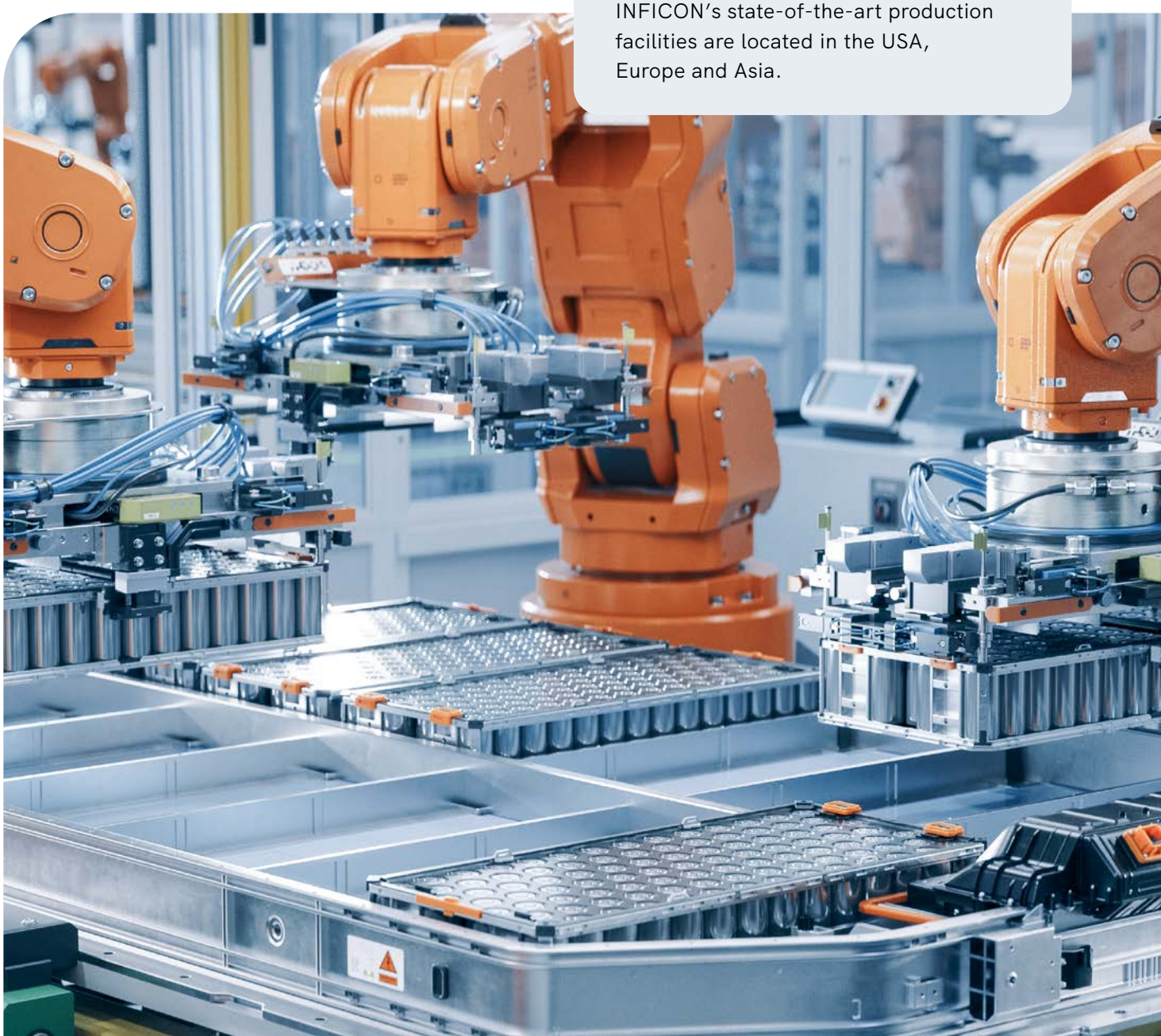
- Large display, minimizes operator mistakes
- Light and ergonomic, comfortable operation
- Narrow probe tip for easier access in complicated spaces
- Diffusion sensor (no flow), resilient to high background gas levels, dust and dirt

Performance you can depend on

INFICON offers the world's leading technology in the field of measuring technology, sensor technology and 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 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 for your company through our specialized experts in numerous branch offices worldwide. INFICON's state-of-the-art production facilities are located in the USA, Europe and Asia.



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 calibration 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, probe cable and case)	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)	22 hours
Charge time (battery model)	6.5 hours

*Charged using adapter supplied, 100-240T 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
P60 Hand Probe, rigid neck	590-890
P60 Flex Hand Probe, flexible neck	590-892
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
Probe Tip Protection Caps	
for Strix Hand Probe (50 pcs)	590-300
for Strix Hand Probe (500 pcs)	590-305
for P60 Hand Probe (50 pcs)	591-273
for P60 Hand Probe (500 pcs)	590-625
SPARE PARTS	
Replacement Sensor for Strix Hand Probe	590-290
Replacement Sensor for P60 Hand Probe	590-292

*Recommended kit

INFICON Inspired by visions. Proven by success.

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