

Sensistor[®] ISH2000 Hydrogen Leak Detector

Ideal for Finding Big and Small Leaks



Fast and Cost Effective Industrial Leak Detection

The Sensistor ISH2000 is a robust instrument for professional leak detection, both manual and automatic. The unique method involving the use of inexpensive forming gas (5 % hydrogen and 95 % nitrogen) as tracer gas combines unmatched measuring properties with user-friendly technology, low costs and minimal service requirements.

This makes the Sensistor ISH2000 the best option for a wide range of production and maintenance applications. It is especially suitable for finding leaks of a size that would leak liquids such as water, fuel and oils or in environments with occasional large leaks.

With its unique tolerance to high gas concentrations, the Sensistor ISH2000 is superior in precisely pinpointing leak location, irrespective of leak size.

APPLICATIONS

The optimal system solution for a variety of demanding applications:

- Automotive
- Refrigeration and Air Conditioning (RAC)
- Aerospace
- Packaging
- Manufacturing industry, e.g. pipes, valves, couplings, hoses, containers

SENSISTOR SENSOR TECHNOLOGY

Sensistor ISH2000 incorporates the proven Sensistor Sensor Technology developed for using forming gas (5% hydrogen in nitrogen) as tracer gas. This hydrogen gas sensor, which relies on diffusion, is extremely sensitive and selective. It is placed in the probe tip and can be easily water protected to allow for leak locating on wet objects. Sensor replacement is performed easily within seconds.

ADVANTAGES AT A GLANCE

- Smart accessories adapt the detector to a wide range of testing situations - from manual sniffing to fully automatic chamber testing
- Low maintenance thanks to no moving parts
- High sensitivity combined with excellent performance in high concentrations, makes it easy to locate leaks
- Short recovery time reduces downtime when detecting gross leaks
- Easy sensor fitting allows the operator to replace the sensor in a matter of seconds



The ISH2000P is designed for panel mounting, perfect for automatic leak testing.

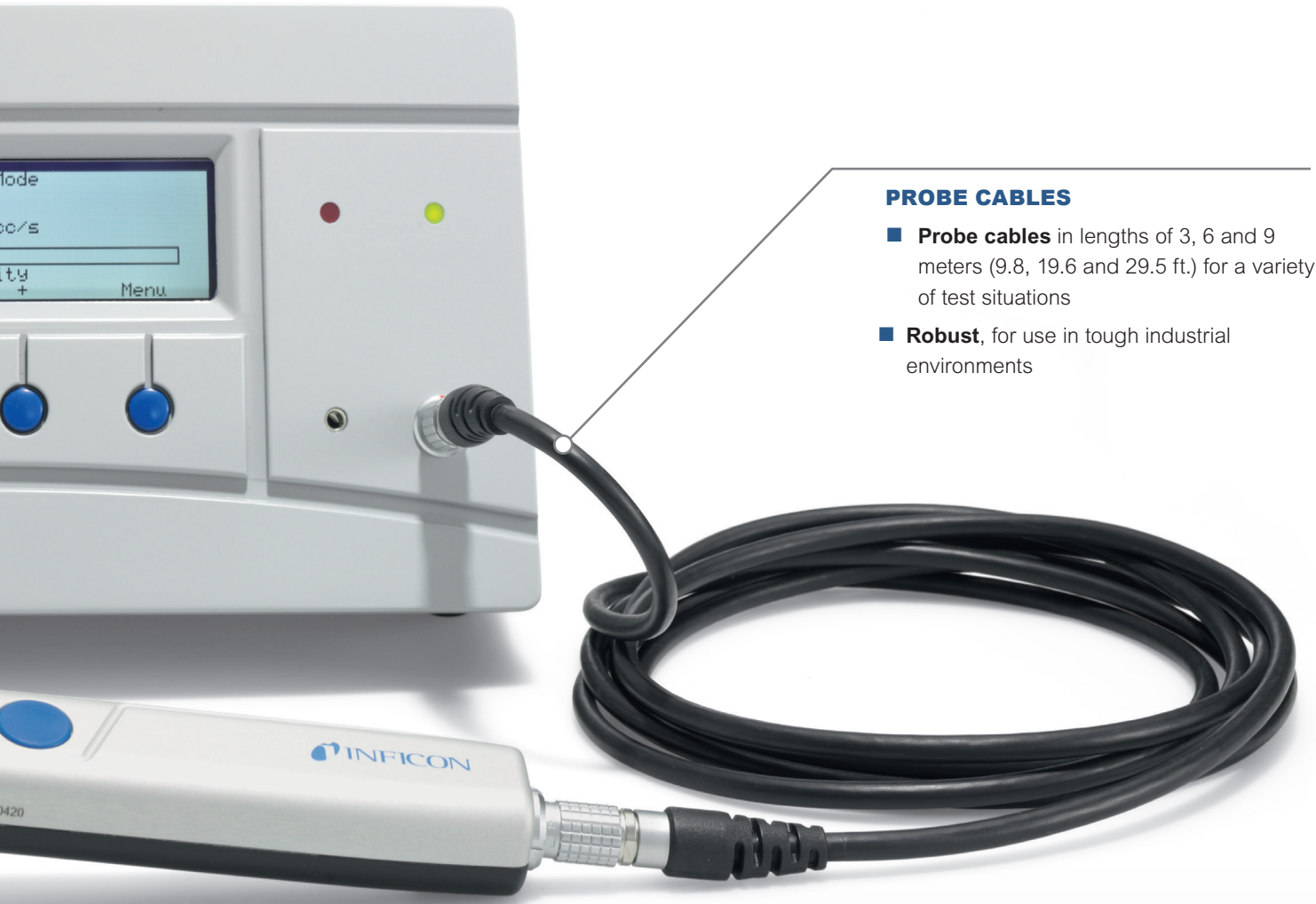
FACILITATE FOR THE OPERATOR

- **High sensitivity** – detects smaller leaks and shortens the time for each test cycle
- **Combined screen display for “Measure” and “Locate”** improves the efficiency of the operator’s work
- **Alternative alarms** through different types of audio signals and/or visual indicators on the screen
- **The audio alarm can be clearly heard** even in noisy environments, and in cases where the measurement point and the instrument are far apart
- **Adjustable audio indication** makes the measurement procedure easier. Choose between continuous audio signal, audio signal only at alarm level, or audio signal at a defined percentage of the alarm level
- **A choice between pre-defined measurement units** for leak flow, PLUS programmable unit, supports the setting up of the instrument for different measurement situations
- **Multi-point measurement with accumulation** of the values makes it possible to add several leaks and compare with the total threshold value



ERGONOMIC HAND PROBE WITH BUILT-IN INTELLIGENCE

- **Easy sensor fitting** makes it simple to replace the sensor in a matter of seconds
- **Short recovery time** reduces downtime when detecting gross leaks
- **Built-in illumination** source of the probe helps precisely position the probe tip
- **LED Leak indication** in the hand probe provides the operator with fast information during the leak detection process
- **Automatic Zero setting** eliminates problems with high background levels of tracer gas



PROBE CABLES

- **Probe cables** in lengths of 3, 6 and 9 meters (9.8, 19.6 and 29.5 ft.) for a variety of test situations
- **Robust**, for use in tough industrial environments

ACCESSORIES

There are plenty of ways to increase your application area with the broad range of ISH2000 accessories.



AP29ECO Sampling Probe
For automatic leak testing of entire products or parts of products.



P50 Flex Hand Probe
With a flexible neck. Facilitates leak detection in hard-to-reach places.



Calibrated Leaks
For calibration and function tests of the Sensistor ISH2000.



ILS500 F Leak Detection Filler
For controlled tracer gas handling including tooling control and gross leak test.



TGF11 Tracer Gas Filler
For controlled filling and evacuation of tracer gas in the test object.



Versatile instrument for a multitude of leak test methods

HAND SNIFFING

The ISH2000 leak detector is designed for locating and measuring leaks with maximum ease. Switch on the detector, move the hand probe over the test object and let the alarm indication guide you to the leak.

HYSPEED TESTING

Available as HySpeed® model, the ISH2000 leak detector uses a fast, reliable method for in-line leak testing that can match the filling speeds of modern packaging machines.

ROBOTIC SNIFFING

The ISH2000 leak detector can easily be integrated in a robot system for robot assisted, operator independent leak tests.

ACCUMULATION TEST IN CHAMBER

The ISH2000 leak detector can be used for integral leak tests, where the entire object is placed inside a chamber and tested for leaks. The leak detector measures the total leak rate of the test component regardless of the number and the position of the leaks.

SNIFFER CLAMP TEST

The ISH2000 can perform point tests using customized local enclosures around the test point. An easy-to-set up leak detection solution increasing the test sensitivity and reducing wind draft interference.

SPECIFICATIONS

Min. detectable leak (Locating Mode with P50 Hand Probe)	5 x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Min. detectable leak (Measuring Mode with P50 Hand Probe)	0.5 ppm H ₂ ; 5x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Start time	1 min
Calibration	External test leak or calibration gas
In- and outputs	25 pin, D-Sub with status signals 24V DC / 0.5A 9 pin, D-Sub with RS232 Probe connector
Maintenance	Maintenance free
Power supply	Sensistor ISH2000: 100–240 V (ac), 50/60 Hz, 2 A Sensistor ISH2000P: 24V DC, 3 A
Dimensions (W x H x D)	Sensistor ISH2000: 275 x 157 x 170 mm (10.8 x 6.1 x 6.6 in.) Sensistor ISH2000P: 275 x 137 x 81 mm (10.8 x 5.3 x 3.1 in.)
Weight (exclusive probe and probe cable)	Sensistor ISH2000: 3.9 kg (8.6 lb.) Sensistor ISH2000P: 1.7 kg (3.7 lb.)

ORDERING INFORMATION

PRODUCT	Cat. no.
Sensistor ISH2000 (Incl. Hand Probe P50 and 3 m C21 probe cable)	590-750
Sensistor ISH2000P	590-760
Sensistor ISH2000 HySpeed	590-870
ACCESSORIES	
Hand Probe P50	590-780
Hand Probe P50 Flex, flexible neck	590-790
C21 Probe cables	
3 m (9.8 ft.)	590-161
6 m (19.6 ft.)	590-175
9 m (29.5 ft.)	590-165
Robot Probe R50 (incl. Combox and 2 x 3 m C21 cable)	590-920
AP29ECO Sampling Probe	590-035 (3cc/sec sample flow) 590-036 (1cc/sec sample flow)
TGF11 Tracer Gas Filler	590-558 (standard pressure version) (0.3 - 10 barg /4.4 - 145 PSIG) 590-559 (low pressure version) (0.05 - 2 barg/0.7 - 29 PSIG)
Sensistor ILS500 F Leak Detection Filler	590-580 590-581 (high pressure model)
Test leaks	see separate data sheet
Combox (incl. 3 m C21 cable)	590-820
SPARE PARTS	
Sensor	590-292
H65 Insert Sensor	590-250



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