

Sensistor Sentrac

Hydrogen Leak Detector



**HIGH SENSITIVITY, LARGE DYNAMIC RANGE
AND SHORT RECOVERY TIME
-FOR BOTH BIG AND SMALL LEAKS**

The challenge to assure quality

In production environments, the focus is on quality; about the need to detect any leak and the ability to pinpoint it precisely. A leak can be microscopic, small, very large or huge. The problem is that nothing is ever known about the size of the leak until it presents itself. And that affects your choice of optimal leak detector.

What you need is an instrument that features:

- 1 High sensitivity** – to find the smallest leak relevant to your application in manufacturing and service
- 2 Large dynamic range** – to handle leaks of greatly varying size
- 3 Short recovery time** – to quickly return to high sensitivity even when that huge leak occurs

BENEFITS AND FEATURES AT A GLANCE

- Multi purpose instrument for quick, safe leak detection
- Suitable for both manual and robot-assisted leak detection
- Unique combination of high sensitivity, high selectivity, great dynamics and fast recovery time
- Portable model for service applications, e.g. heat exchangers in industrial production
- Suitable for a broad spectrum of production applications:
 - Automotive industry
 - Aerospace
 - Refrigeration and air conditioning (RAC) technology
 - Manufacturing industry, e.g. for piping, valves, couplings, hoses and containers

To make it easier for you to choose, INFICON has developed the Sensistor Sentrac leak detector with a greater dynamic range and great tolerance to high concentrations of tracer gas. It incorporates the proven Sensistor sensor technology developed for using diluted hydrogen as tracer gas. The Sensistor Sentrac can detect and locate leaks with a size variation within ten decades. Locating leaks in production and maintenance situations has never been easier.

Sensistor Sentrac is the perfect fit for demanding 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 leaks of greatly varying size and is ideal for testing products that should be leak tight for fluids.

MODELS

DESKTOP MODEL

Stationary desktop model for mains operations. This instrument has a small footprint for effective leak detection in a variety of production environments.



PORTABLE MODEL

Battery-powered portable model with long operating life per charge. The perfect service instrument.



Intuitive and clearly laid-out user interface

Starts up directly in leak detection mode

Large color touchscreen

Hard or flexible neck
P60 and P60 FLEX

Quick and simple sensor replacement

Selective Sensistor hydrogen gas sensor

Built-in lighting helps precisely position the probe tip

OLED display for maximum readability at different viewing angles and light conditions

Multi-function button



ACCESSORIES

A number of accessories are available for the Sensistor Sentrac to extend its range of applications.



HAND PROBE P60 (STANDARD)

Ergonomically designed probe with display and multi-function button for effective manual leak detection.



HAND PROBE P60 FLEX

Like the P60, but with a flexible and extended neck. Facilitates leak detection in hard-to-reach places and on irregularly shaped products.

Sensistor Sentrac



USB for PC connection

Plug-and-play for accessories



SD card reader for setting back-up and data exchange with other instruments

Analog output
Digital in- and outputs
Serial Port



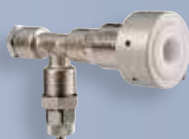
Well-balanced ergonomic probe

Up to 9 meter (29.5 ft.) long probe cable



ROBOT PROBE R50

Fits easily onto most types of industrial robots. Designed to provide maximum accessibility even when detecting leaks on complex shapes.



CALIBRATION LEAKS

Tracer gas leaks for calibration and function testing of Sentrac.



C21 PROBE CABLES

For connection of hand or robot probe to Sentrac. Available in 3, 6 and 9 m (9.8, 19.6 and 29.5 ft.) lengths to match all measuring situations.

is easily met with Sensistor Sentrac

The challenge of detecting and locating each relevant leak and improving quality control is just the beginning. The next hurdle is making it easy for the operator to do things properly and consistently. Sensistor Sentrac reduces the risk of operator error so leak detection is performed reliably, product after product during a long work shift.

**All the information you need
-in the palm of your hand**

The important interaction between the operator and the instrument was central to developing the Sensistor Sentrac, particularly with the new hand probe P60. With a clear OLED display, the probe provides search results in the operator's hand. The display visualizes parameters which facilitate leak detection—for example, a search bar, which indicates distance to the leak, leak size and leak limit. The robust probe is made of aluminium and stainless steel while being flexible and well balanced to fit in smaller hands. The measurement is easily controlled with a single multifunction button on the probe handle.



The search results are presented on the hand probe's screen, simplifying leak detection.

TECHNICAL DATA

Model	Sensistor Sentrac, desktop model	Sensistor Sentrac, portable model
Smallest detectable leak		
Locating Mode with P60 Hand Probe	1x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂	1x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Measuring Mode with P60 Hand Probe	0.5 ppm H ₂ ; 5x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂	0.5 ppm H ₂ ; 5x10 ⁻⁷ mbarl/s or cc/s with 5% H ₂
Start time	1 min	1 min
Calibration	External calibration leak or calibration gas	External calibration leak or calibration gas
In- and outputs	25 pin, D-Sub with following interface: -RS232 -Audio line out -Analog out -Digital 3 in/4 out USB (slave) SD card reader	25 pin, D-Sub with following interface: -RS232 -Audio line out -Analog out -Digital 3 in/4 out USB (slave) SD card reader
Maintenance	Maintenance free	Maintenance free
Power supply	100–240 V (ac), 50/60 Hz, 2 A	Internal rechargeable battery* (Li-Ion)
Dimensions (W x H x D)	305 x 165 x 182 mm (12 x 6.6 x 7.2 in.)	330 x 200 x 280 mm (12.9 x 7.8 x 11 in.) (with case)
Weight (excl. probe and probe cable)	4.2 kg (9.2 lb.)	4.8 kg (10.5 lb.)
Operating time	–	12 hours (without screensaver)
Charge time	–	6.5 hours

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

ORDERING INFORMATION

	Part Number
Sensistor Sentrac, desktop model (Incl. Hand Probe P60 and 3 m C21 probe cable)	590-900
Sensistor Sentrac, portable model (Incl. Hand Probe P60 and 3 m C21 probe cable)	590-910
Accessories	
Hand Probe P60	590-890
Hand Probe P60 Flex, flexible neck	590-892
Robot Probe R50 (incl. 3m C21 cable and Combox60)	590-921
Probe tip protection caps, 50 pack (for P60, P60 Flex)	591-273
Probe tip protection caps, 500 pack (for P60, P60 Flex)	590-625
Probe tip filter, 50 pack (for P60, P60 Flex)	591-234
C21 probe cables	3 m (9.8 ft.) 6 m (19.6 ft.) 9 m (29.5 ft.)
C21 probe cables	590-161 590-175 590-165
Calibration leaks	See separate data sheet
Spare parts	
Sensor	590-292



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

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