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Sensistor Technologies

Hydrogen Leak Detector

H2000



Easy to use.
Leak testing using Hydrogen
as tracer gas.

Fast, easy to use, and durable. Hydrogen Leak Detector H2000.

- a breakthrough in leak detection and tightness control.



Hydrogen Method

Searching for leaks using hydrogen, called the Hydrogen Method, is today an established method in the industry. Sensistor launched its first leak detection and tightness control system, based on the hydrogen gas method, more than 20 years ago. Many different types of industry all over the world use this method today. The reason is that hydrogen as a tracer gas has several advantages compared to other tracer gases. And now there will be even more advantages. Sensistor has developed a new generation of leak detectors that add new advantages and qualities to the Hydrogen Method.





Unique and reliable

The hydrogen leak detector H2000 is a unique instrument for industrial leak detection and tightness control. It is small, robust, and extremely sensitive to hydrogen gas.
It can be used to detect leaks as small as $5x10^{-7}$ mbarl/s. It is also insensitive to other gases and has a unique capability of handling background levels of hydrogen gas. In other words, everything required for sensitive and reliable testing.

The optimal tracer gas

Leak detection using the hydrogen method is becoming more common in industry. One reason for this is that hydrogen is the cheapest tracer gas available. The actual gas mix used is a safe mixture of 5% hydrogen in nitrogen. Another reason is the inherent characteristics of hydrogen. Hydrogen is the lightest and least viscous of all gases. It spreads very quickly throughout the test object and seeps quickly through the smallest leak. Background interference is easily minimized because of the speed with which hydrogen dissipates.
The method requires no pumps or vacuum and thus needs a minimum of maintenance.

Gives more possibilities

When using the hydrogen method and the H2000, leak detection is no longer a choice between a water bath, pressure testing, and a mass spectrometer. Now you can customize your solution to suit your requirements and budget. Hydrogen gas detection with the H2000 offers flexible solutions that have not previously been available. For example, you can measure pressure drop in order to disclose leaks and locate them with hydrogen gas. Or you can use hydrogen gas and the H2000 to detect leaks with high sensitivity, independent of temperature.

A modern method

Leak testing using gas is used when it is unsuitable to put the test object in a water bath, when pressure decay cannot be used because of temperature interference or when the test object is elastic. Taking the step from water bath to leak detection with a tracer gas is considered to be a major one, both as regards price and complexity. But with the Hydrogen Method and the H2000, the step to modern and efficient leak testing is much smaller.

- With the H2000 you minimize problems with background interference, because hydrogen gas is dissipated much quicker than other gases and because the H2000 has dynamic background compensation.
- H2000 is entirely electronic. No pumps, valves, or other things that require maintenance. No service is thus needed. If the probe is damaged, the operator himself can replace it in just a couple of minutes.
- H2000 is small and robust. It is easy to move around when searching for leaks on a large object, e.g. an aircraft. It can also be easily transported in a suitcase when travelling, e.g. for a service engineer.
- H2000 is very easy to use. Switch on the power and wait just one minute. Then start searching for leaks. If the standard settings are unsuitable, change them simply by browsing through the menus on the display.
- H2000 is suitable for leak detection in tough factory environments. The standard H50 probe has no sample suction and can thus be used without worrying about dust. The probe can be equipped with a protective cover that allows leak detection on wet objects.
- H2000 is based on modern digital technology and does not require trimming or calibration other than by simply pushing buttons. It can be calibrated with a reference gas or a reference leak.



Sensistor Technologies

H2000

PLUS

Models

H2000-C. Mobile, battery operated



H2000-P. Panel model



H2000. Desktop model



Facts about the tracer gas:

Pure hydrogen is never used as a tracer gas because it is highly inflammable. A gas mixture comprising 5% Hydrogen gas and 95% Nitrogen gas is used instead. This gas mixture is not inflammable (see ISO 10156) and is not toxic or corrosive, nor dangerous to the environment. Both hydrogen gas and nitrogen gas are present in all biological systems. Some gas suppliers have their own trade name for this gas mixture.

Accessories

AP55 Sniffer Probe

AP57 Counter Flow Probe

AP33 Hydrogen Sampler

AP29 Sampling Probe

Reference Leaks

Product facts:

Sensitivity:	Leak detection with standard probe H50: $5x10^{-7}$ mbar/s at 5% H_2 (eq. to 0,1 g/yr R134a) $1x10^{-7}$ mbar/s with sniffer probe AP55 H_2 Analysis: 0,5 ppm H_2
Start up time:	1 minute
Calibration:	External reference leak or calibration gas
Front panel:	Illuminated 256 x 64 pixel LCD Loudspeaker Earphone socket Green LED for status Red LED for alarm
Rear panel:	D-Sub connector with status signals 24V DC / 0.5A
Maintenance:	None
Power supply:	100-240 VAC, 50/60 Hz, 2 A
Dimensions:	275x155x170 mm (10,8x6,1x6,9 inches)
Weight:	4.1 kg (10,1 lbs)

adixen

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H2000 PLUS

H2000 PLUS is the new generation of the H2000 series. With new and improved functions, your leak testing with hydrogen trace gas becomes even more efficient.

H2000 PLUS includes Autoranging which automatically adjusts the sensitivity to the situation. This allows you to scan large areas and pin-point your leaks without ever touching a button.

The H2000 PLUS is open to bi-directional communication allowing you both to retrieve and download settings. You can now hand over the full control of your H2000 to a PC or PLC.

A new Service Mode in the H2000 PLUS gives systems integrators the possibility to manually override all inputs and outputs. This makes installation and commissioning of a new system easier and faster.

Main changes

FUNCTIONS
- Autoranging function for automatic sensitivity adjustment
- Manual override to control /correct inputs/outputs from the service menu
- Extended serial output data

USER INTERFACE
- Control commands and settings easily sent from PC/PLC
- Start button for APC sampling directly from the screen
- Easier input of digits and letters
- Easier set-up of calibration coefficient
- Better access to calibration information

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