



# AP57

## Counter Flow Probe

### RELIABLE LEAK DETECTION WITHIN CONFINED SPACES

The AP57 Counter Flow Probe is an accessory to the Sensistor ISH2000 Hydrogen Leak Detector. Together they make a perfect combination for fast and simple leak detection in confined spaces, where high concentrations of tracer gas usually cause problems. Leak detection in pneumatic and gas cabinets, engine rooms, airplanes and boats are typical applications.

The AP57 is controlled by the Sensistor ISH2000 Hydrogen Leak Detector and is extremely easy to use.

The leak detection procedure starts by filling the test object with tracer gas, e.g. using the TGF10 Tracer Gas Filler or the Sensistor ILS500 F Leak Detection Filler. If there is a leak in a confined space, this may quickly be filled with tracer gas. A standard probe would register a high content of tracer gas in the space as a whole, which makes it very difficult or impossible in practice to locate the exact position of the leak. With the AP57, the operator activates a suitable counterflow of fresh air around the probe tip that minimizes the effect of tracer gas in the background, making it very simple to locate the leak. The detector emits a distinct signal when the tip of the probe is placed in the vicinity of the leak. Thanks to the adjustable counterflow, the instrument can easily be adapted to deal with a variety of test situations.

The AP57 belongs to a family of leak detection instruments based on the hydrogen method. This method involves injecting a safe, environmental-friendly tracer gas containing 5% hydrogen in nitrogen into the test object. A unique 100% selective hydrogen sensor is utilized to locate the position and measure the size of a leak.

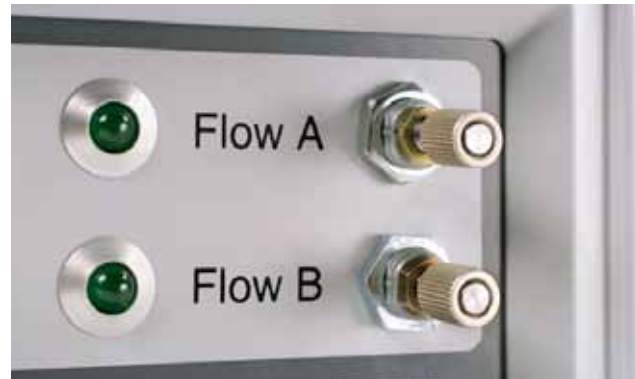
#### FEATURES AT A GLANCE

- Locate leaks in confined spaces with high background content of tracer gas
- Fast and precise leak locating
- Counterflow and non-counterflow modes
- Two counterflow levels
- Probe button for fast selection of flow level

## HOW IT WORKS

### COUNTERFLOW OF FRESH AIR CREATES A ZONE FOR ACCURATE LEAK DETECTION

The AP57 contains a pump that purges the tip of the hand-held probe with fresh air via the probe cable. This creates a small zone of clean air just in front of the sensor. Gas in the background cannot enter the clean zone, whereas tracer gas from a leak can. Two different flow rates, A and B, can be predefined with needle valves located on the instrument's front panel. By pressing a button on the hand-held probe, the operator can easily select whether flow A or B is most suitable for the current situation. The hand-held probe can also be used in passive mode, i.e. without counterflow.



## SPECIFICATIONS

Minimum detectable leak rate	
Locating Mode	5x10 <sup>-7</sup> mbarl/s or atm cc/s of 5% H <sub>2</sub> tracer gas (with flow off)
Measuring Mode	0.5 ppm H <sub>2</sub> ; 2x10 <sup>-6</sup> mbarl/s or atm cc/s of 5% H <sub>2</sub> tracer gas (with flow off)
Supplies	Electrical Supply 24 V (dc) from the Sensistor ISH2000 Hydrogen Leak Detector
Fresh Air	Fresh air with no H <sub>2</sub> contamination (atmospheric pressure). Connector: ISO G1/8"
Counter Flow range	0-33 atm cc/s (2 separate flows)
Dimensions (H x W x D)	275 mm x 205 mm x 100 mm (11 in. x 8 in. x 4 in.)
Weight	6 kg (13.2 lb.)
Compatibility	Sensistor ISH2000 Hydrogen Leak Detector TGF10 Tracer Gas Filler ILS500 Leak Detection System ILS500F Leak Detection Filler

## ORDERING INFORMATION

	Part no.
AP57 Sniffer Probe Includes Bus Cable 1 m, Fluid Cable 3 m, Cable C21 0.3 m and Hand Probe H55. Requires Combox (P/N 590-820) if connected to Sensistor ISH2000, Hydrogen Leak Detector (or previous model ASH2000)	590-555



The AP57 Counter Flow Probe module with hand probe unit.