

# PORTABLE LEAK DETECTOR Hydrogen Method

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*More than 40 years at your service*

The logo for Soderel, featuring a stylized orange 'S' above the word 'soderel' in a bold, sans-serif font. Below the logo, it reads 'DÉPARTEMENT REMPLISSAGE' and 'www.soderel.com'. The logo is flanked by a cluster of colorful icons representing various services: a purple icon with a triangle, a grey icon with a water tap, an orange icon with a boat, a green icon with a water level gauge, a blue icon with a snowflake, and a red icon with an exclamation mark.

# Portable Leak detector

The DFP-S06 has been specially developed for the leak detection and localization by using hydrogen as tracer gas.

It detects and locates all hydrogen traces in the ambient air. No other equipment is necessary (vacuum pump, water bath, ...).



## Two mains functions:

The instrument has two functions:

- . **The detection mode** is used for the fast detection and localization of a leak.
- . **The analysis mode** is used to determine the concentration of hydrogen in the air and thus to estimate the leak size. Measurement is taken in ppm. The estimation of the leak is carried out according to the application, for example in  $\text{cm}^3/\text{s}$ , in  $\text{Pa/s}$ ,...

## The DFP offers you:

. **high sensitivity to hydrogen** - usable with two types of probes, the DFP-S06 can detect and locate leaks of about 0,5 ppm to 500 ppm.



. **big facility of use** - portable, the DFP-S06 combines lightness and robustness.



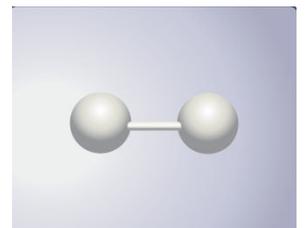
# Portable Leak detector

- . **An exemplary power** - equipped with two microcontrollers, it ensures a flexible management and a fast response time.
- . **A total flexibility** - it is equipped with an intuitive menu and a system of multiple configurations which can adapt to all the spheres of activity.
- . **Respect for the environment** - the DFP-S06 fulfills the requirements of the DEEE/RoHS Directive.



## The advantages of hydrogen as tracer gas:

- . it is the cheapest tracer gas
- . it is neither toxic nor dangerous to the environment
- . it is a renewable natural resource
- . it is the lightest and least viscous of all gases
- . it spreads very quickly throughout the test object and seeps easily through the smallest leak. It is easy to eliminate it from the zone.



Pure hydrogen is never used as a tracer gas because it is inflammable. The used tracer gas is a gas mixture comprising 5% Hydrogen gas and 95% Nitrogen gas. This gas mixture is neither inflammable (see ISO 10156), toxic, nor corrosive.



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## Features:

**Power supply:** internal rechargeable battery and/or external power supply

**Autonomy:** 8 hours for the probe of type 1 and 4 hours for the probe of type 2 (of continuous use)

**Start up time of the sensor:** 3 min approx.

**Response time:** < 2 sec

**Recovery time:** < 10 sec

### Operator interface:

- 4X20 character display

- Visual representation by bar graph

- Digital display of the leak value

- Luminous indicator

- Sound warning signal

**Adjustment:** possibility of regulating several rejection and alarm thresholds

### Operating conditions:

- Temperature: +5°C to +35°C

- Humidity: 90% maximum

- Hydrogen concentration in the ambient air: 0,5 ppm maximum

### Storage conditions:

- Temperature: -20°C to +60°C

**Maintenance:** none

**Calibration:** by calibration gas

**Sensitivity:** 0,5 ppm H<sub>2</sub>

**Dimensions:** 270 x 116 mm

**Weight:** 600g, battery included



# Portable Leak detector

## Options/Spare parts:

Sector adapter\*

Charging station

Probe of type 1\*  
for concentrations strictly lower than 100 ppm

Probe of type 2\*  
for concentrations between 100 and 500 ppm

Certificate of calibration

Foreign languages  
English, German, Spanish

*\* The apparatus is provided with the sector adapter and one of the two probes according to your order*

## Services:

One-year guarantee with possibility

of a five-years extension  
of annual checking and calibration

