

HYDROGEN LEAK DETECTOR



FIBER OPTIC HYDROGEN LEAK DETECTOR - MODEL 1000T

Technical Datasheet

The UFS H2safe Leak Detector is a reliable and efficient sensor designed for detecting molecular hydrogen leakages starting at 0.1 vol%. Utilizing fiber optic technology, this sensor is 100% free of electronics, enhancing its intrinsic safety.



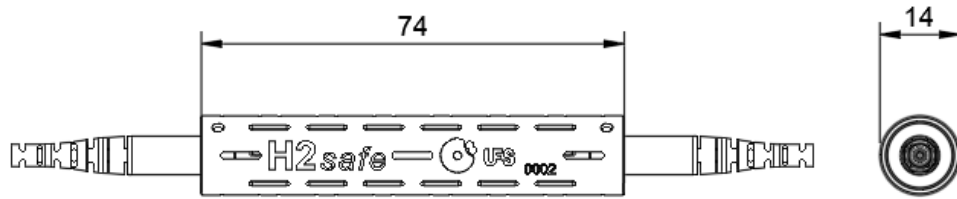
Key Features

- Robust design suitable for both indoor and outdoor environments
- Leak and concentration detection with high sensitivity
- No electrical components, making it intrinsically safe
- Easy installation with fiber optic daisy-chaining capability
- Uses Fiber Bragg Grating (FBG) technology for precise hydrogen concentration detection.

Technical Specifications

Parameter	Performance
Sensitivity	1000 - 1250 pm/vol% H ₂
Detection Limit (Threshold)	0.1 vol% H ₂
Operational H ₂ Range (in air)	0.1 – 100 vol%
Response Time	< 3 sec
Weight	100 grams
Material	Aluminum
Operational Temperature Range	-20 to +60 °C
Intrinsic Temperature Compensation	Yes

HYDROGEN LEAK DETECTOR

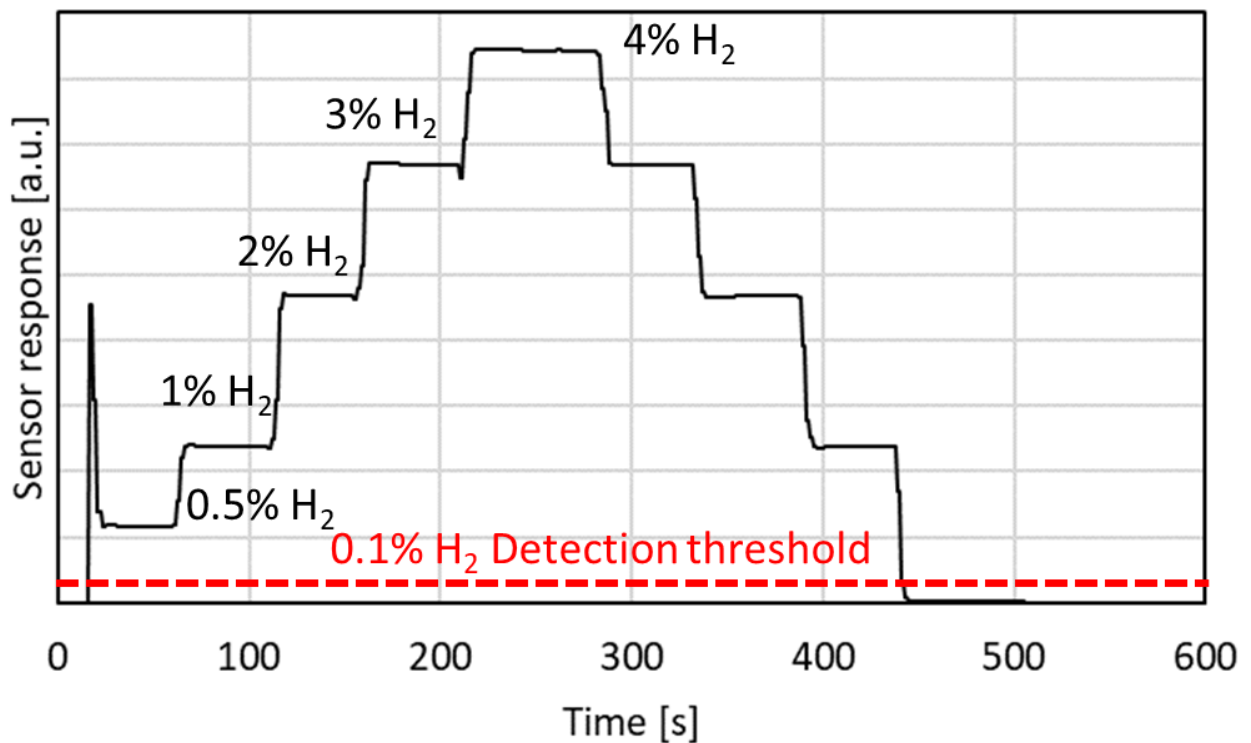


all dimensions in mm

Calibration and Typical Response

Each sensor is individually tested and calibrated after manufacturing. A detailed calibration sheet is provided with every sensor to ensure accuracy and performance.

The graph shows a typical response of the sensor exposed to discrete H₂ levels.



Contact Information

United Fiber Sensing B.V.

Spui 37, 2511 BL The Hague, Netherlands

+31 6 28 195 159

info@unitedfibersensing.com

unitedfibersensing.com

Chamber of Commerce (CoC): 85806706 | VAT: NL863748843B01

This document provides an overview of the H2safe Leak Detector specifications and performance details. For further information or inquiries, please contact us.