

HYDROGEN LEAK DETECTOR



Cost effective sensor for detection of molecular Hydrogen leakages starting at 0.1 vol%.

The sensor uses light via fiber optic cables and is 100% free of any electronics. Using light instead of conventional electronics adds to the intrinsic safety of the sensor.

Multiple sensors are permanently installed in close proximity to piping, valves, meters and connections to continuously safeguard the Hydrogen facility.

Fiber optics allows easy sensor installation and simple Daisy-Chaining multiple sensors using a single optical fiber.

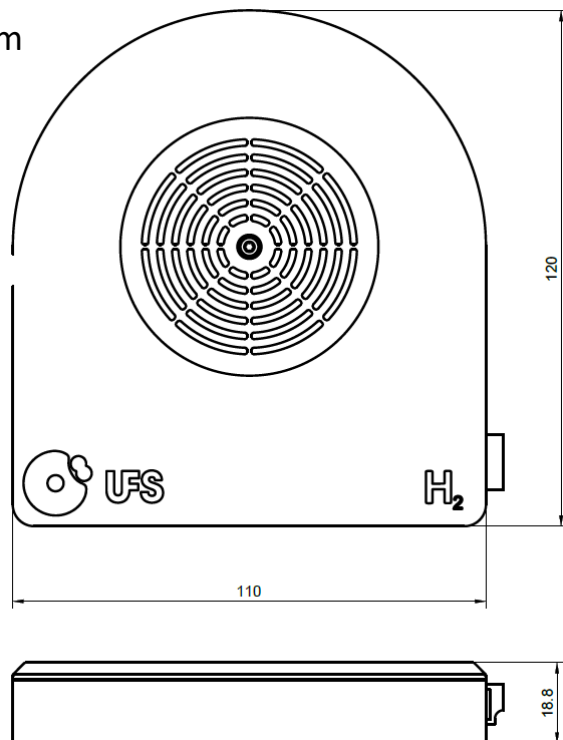


Parameter	Performance
Sensitivity	100 - 150 pm/vol% H ₂
Detection limit (threshold)	0.1 vol% H ₂
Operational H ₂ range (in air)	0.1 – 100 vol%
Response time	< 10 sec
Weight	100 grams
Material	Nylon
Operational temperature range	-20 to +60 °C
Intrinsic temperature compensation	Yes

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Dimensions in mm



Mounting instructions

Sensor installation on a flat surface using magnetic clamp (provided in sensor package).

Note: avoid direct sunlight.

Calibration and typical response

All sensors are individually tested and calibrated after manufacturing.

The graph shows a typical response of 3 hydrogen sensors exposed to 2 vol% H₂ levels.

The detection limit is set to 30 pm corresponding to 0.1 vol% H₂ and is triggered within 5 seconds.

