ODOS
CLOUD DATA LOGGING

Hydrogen Sensor

A CAN-based sensor that measures pressure, temperature, hydrogen, humidity, dew point, and 3-axis acceleration. Designed to detect hydrogen leaks or early battery issues. Configurable plugin in ODOS dashboard to be added to any ODOS data logger unit.

The sensor features low-power monitoring mode, a wake-up function, and an automotive-grade Molex Nano-Fit connector. Compact, lightweight, ISO 26262 compliant, and tested to automotive standards. ATEX certification in progress.

SPECIFICATIONS

Pressure Sensor	Range	0.3 to 1.2 Bar	**Rel. Humidity**	Range	0 - 100 %
	Resolution	0.0001 Bar		Resolution	0.5 %
	Accuracy	0.0005 Bar		Accuracy (Worse Case)	3 %
	Max Update Rate	50 Hz		Max Update Rate	5 Hz
Air Temperature	Range	-40 to 125 °C	**Accelerometer** *1	Range	- 24 to + 24 g
	Resolution	1 °C		Resolution	0.01 g
	Accuracy	+-1 (+-2 at 24VDC)		Accuracy (Worse Case)	0.1 g
	Max Update Rate	5 Hz		Max Update Rate	200 Hz
Hydrogen	Range	0 to 20% Vol. concentration	**Environmental**	Operating temp	-40 to +85 °C
	Resolution	0.002 %	**Weight**		15 grams
	Accuracy	0.4 vol% + 10% m.v.			
	Max Update Rate	1 t(63) <1s) Hz	**Dimensions**		H 11.5 x W 55 x L 63 mm
Absol. Humidity	Range	0 - 35000 mg/m³	**CAN**	Baud rates	1000, 500, 250 kbps
	Resolution	70 mg/m³		Address Range	1 (0x01) to 2042 (0x7FA) Default = 0 x 30A decimal (Hex)
	Accuracy (Worse Case)	5 %FSS			
	Max Update Rate	5 Hz			
Dew Point	Range	0 - 100 °C			
	Resolution	0.5 °C			
	Accuracy (Worse Case)	+/3 °C			
	Max Update Rate	5 Hz			

*1 Extra option. Note: Air Temperature accuracy is dependent on installation, heat from the sensor itself can affect this. Humidity accuracy valid from 0 to 80 deg C IC temperature and 5 to 95% RH