Battery Monitoring Sensor

A CAN-based sensor that monitors pressure, temperature, VOCs, hydrogen, humidity, dew point, and acceleration.

Configurable plugin in ODOS dashboard to be added to any ODOS data logger unit, low-power mode, and an automotive-grade Molex connector. Compact, lightweight, and tested to ISO standards for reliable integration in battery systems.

SPECIFICATIONS

Pressure Sensor	Range	0.3 to 1.2 Bar
	Resolution	0.0001 Bar
	Accuracy	0.0005 Bar
	Max Update Rate	50 Hz
Air Temperature	Range	-40 to 125 °C
	Resolution	1 °C
	Accuracy	+-1 (+-2 at 24VDC)
	Max Update Rate	5 Hz
VOC's	Range	0 to 65535 Raw 0 to 6553.5ppm
	Accuracy (Worse Case)	15 %
	Max Update Rate	1 t(63) <1s) Hz
Hydrogen *1	Range	0 to 20% Vol. concentration
	Resolution	0.002 %
	Accuracy	0.4 vol% + 10% m.v.
	Max Update Rate	1 t(63) <1s) Hz
Absol. Humidity	Range	0 - 35000 mg/m³
	Resolution	70 mg/m³
	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
Rel. Humidity	Range	0 - 100 %
	Resolution	0.5 %
	Accuracy (Worse Case)	3 %
	Max Update Rate	5 Hz
Accelerometer *1	Range	- 24 to + 24 g
	Resolution	0.01 g
	Accuracy (Worse Case)	0.1 g
	Max Update Rate	200 Hz
Environmental	Operating temp	-20 to +70°C (VOC) -40 to +85°C (H2)
Weight		15 grams
Dimensions		H 11.5 x W 55 x L 63 mm
CAN	Baud rates	1000, 500, 250 kbps
	Address Range	1 (0x01) to 2042 (0x7FA) Default = 0 x 30A decimal (Hex)

*1 Optional extra. Note: Air Temperature accuracy is dependent on installation, heat from the sensor itself can affect this. % of meas. value, sensor drift is 1.3% of measured value per year of operation, 90% of the sensors will be within the typical accuracy tolerance, stated accuracy is valid up to 100ppm. Humidity accuracy valid from 0 to 80 deg C IC temperature and 5 to 95% RH