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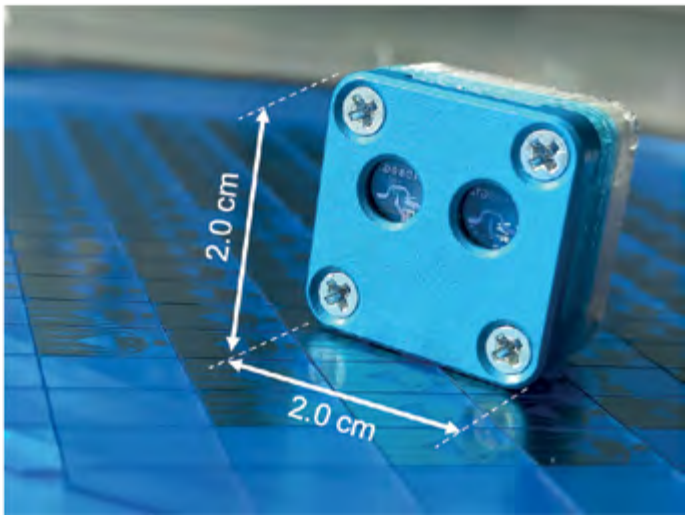

Faraday-Ox™ Oxygen Sensor Development Kit

Applications

- Food freshness monitoring
- MAP Modified atmosphere packaging
- Logistics
- Breath analysis
- Hydrogen economy
- Industrial safety

The **Faraday-Ox™ development Kit** contains up to two separate Faraday-Ox™ sensors and delivers a digital oxygen concentration measurement. The module is designed for efficiency and practicality, and is characterized by its compact size and ultra-low power consumption. Pulsed mode operation further reduces power consumption without compromising performance. This module simplifies integration through a connector-based installation system, avoiding the need for soldering, and is factory calibrated for immediate and reliable use. Within the module, integrated humidity and temperature sensors provide vital environmental compensation, enhancing the accuracy of oxygen measurements. Additionally, each module is equipped with mechanisms to compensate for sensor aging, ensuring consistent performance over time. The development kit is completed with a standard USB-C connection and a GUI compatible with standard PC browsers.

Technical Specifications *preliminary*

Faraday-Ox™ | Option	003	315	1525	251
Measurement Range (O_2)	0-3 %	3-15 %	15-25 %	25-100 %
Resolution	1 ppm	3 ppm	3 ppm	20 ppm
Temperature Range	-20 … +85 °C			
Humidity Range	0 … 95 % (non-condensing)			
Supply voltage (USB)	3.0 ….. 5.0 V			
Average supply current (USB)	~5 µA			
Peak current *)	< 10 mA			
Dimensions (without cable)	20 x 20 x 10 mm			
Weight (without cable)	7 g			

* Depends on environmental conditions and measurement parameters