

ExplorIR[®]-W

- **Flexible, small form-factor CO₂ sensor**
- **Ideal for battery-powered applications**
- **Fit and forget, fully autonomous operation**
- **Long life, >15 years**

About the ExplorIR[®]-W

The ExplorIR[®]-W is a small footprint low power CO₂ sensor designed for applications where space is at a premium. The combination of small size, low power and high accuracy makes this sensor suitable for portable, battery powered personal safety equipment.

The ExplorIR[®]-W has a very wide dynamic range and is capable of measuring CO₂ gas concentrations up to 100%, without compromising measurement accuracy or responsiveness.

The ExplorIR[®]-W uses patented NDIR solid-state LED optical technology that delivers consistent and accurate CO₂ measurement performance over the lifetime of the sensor.

Features

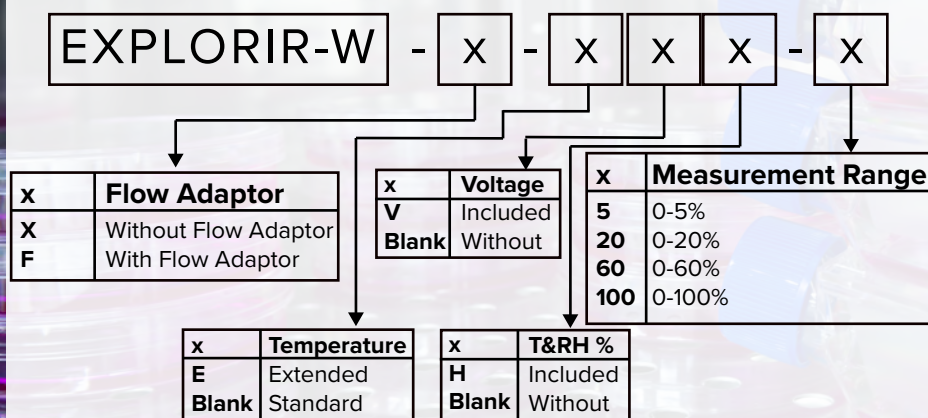
- Measures up to 100% CO₂ concentration
- Low power CO₂ sensor
- Solid-state LED optical technology
- Vibration and shock resistant
- Optional temperature and relative humidity sensor
- Optional voltage output
- UART data interface
- Built-in auto-calibration
- Optional flow through adaptor

Applications

- Industrial Safety
- Incubators
- Transportation
- Refrigeration
- Horticulture and Agriculture



Ordering Information



<https://www.gassensing.co.uk/product/explorir-w-co2-sensor/>



CO₂ Sensor Specifications

Measurement Ranges	0-5%, 0-20%, 0-60%, 0-100%
Accuracy (typ.)	0-60% ±(70ppm +5% of reading) 0-100% ±(300ppm +5% of reading)
Time to 1st Reading	1.2 seconds
Response Time	<30 Seconds (Diffusion limited)
Readings per Second	2
Sample Method	Solid-state LED NDIR Diffusion

Electrical and Mechanical Specifications

Measurement Output	UART (optional voltage)
Supply Voltage	3.25V to 5.5V
Power Consumption (typ.)	3.5mW @ 3.3V
Dimensions and Weight	40mm x 25mm x 23mm, 8g

Operating Conditions

Operating Conditions - Temperature	0°C to 50°C (Standard) -25°C to 55°C (Extended)
Operating Conditions - Humidity	0-95% RH, non-condensing
Storage Conditions - Temperature	-40°C to +70°C
Pressure Dependence	500mbar - 10bar
Sensor Lifetime	>15 years
Environmental Compliance	RoHS and REACH