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Explor®-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 sensor is designed to take 2 readings per second, making it ideal for applications where gas concentrations are rapidly changing. 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
- UART data interface
- Built-in auto-zeroing
- Optional flow through adaptor
- Optional voltage output

Applications

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

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Explor R-W **Ordering Information EXPLORIR - W** Х Х Х Х Х **Flow Adaptor** X X F Voltage **Measurement Range** х x Without Flow Adaptor v 2000 0-2000ppm Included With Flow Adaptor Without 5000 0-5000ppm Blank 0-1% 1 T&RH% Temperature x x Е Extended н Included Blank Without Blank Standard

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 1 st 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
Supply Voltage	3.25V – 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
Ambient Operating Pressure	500mbar to 2bar
Sensor Lifetime	>15 years
Environmental Compliance	RoHS and REACH

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