eosGPCO_2

TECHNICAL SPECIFICATIONS

The eosGP is a waterproof carbon dioxide sensor designed for continuous, accurate, in-situ monitoring of CO_2 concentration in harsh soil or shallow water environments.

- Accurate
- Durable
- Compatible
- Waterproof
- Compact

Output Options (choose one)

Analog (default) • Headspace CO_2 Concentration	0 to 5 V DC (default) 0 to 2.5 V DC (custom)
Modbus RS485 Digital (custom) • Headspace CO_2 Concentration • Sensor Temperature	19200 baud 8-N-2 (default)
Streaming RS485 Digital (custom) • Headspace CO_2 Concentration • Sensor Temperature	19200 baud 8-N-2 (default) Space separated ASCII

Performance *

Available calibration options (ppm)		0 - 30,000 0 - 200,000
Concentration accuracy @ full scale	0-3,000: 3,000-10,000: Up to 30,000: At 50,000 ppm: 0 - 80,000 ppm: Up to 200,000 ppm:	± 40 ppm ± 2% reading ± 3.5% reading ± 1,000 ppm ± 2,000 reading ± 4,000 reading
Sensor equilibrium time step change in air - T90		< 90 s
Sensor warmup time to full accuracy		< 4 min

Operating Environment

Temperature	-40 to 60 C (-40 to 140 F)
Humidity	0 to 100% RH non-condensing
Water column	3 m / 10 ft

Power

Operating voltage	12 to 30 V DC
Operating power - avg / peak	0.4 / 0.5 W

Dimensions

Probe diameter	51 mm (2 in)
Probe length	216 mm (8.5 in)
Diffusion windows - diameter	32 / 16 mm (1.3 / 0.6 in)
Diffusion windows - area	1,609 mm^2 (2.5 in^2)
Mass (approx)	400 g (0.88 lb)

* These specifications do not reflect the full specifications for this product.
Full specifications can be found here: 0-30,000 0-200,000

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