

## Sensor Specifications

### CO<sub>2</sub> Detector Performance

Accuracy:  
CO<sub>2</sub> concentration  $\pm 2$  ppm  
Gas stream humidity  $\pm 1$  mbar  
Gas stream pressure  $\pm 2$  mbar

Resolution:  
CO<sub>2</sub> concentration 0.01 ppm  
Gas stream humidity 1 mbar  
Gas stream pressure 1 mbar

Zero drift: automatic zero compensation

Equilibration time ( $t_{63}$ ) 2.5 min (with pump)

Standard range 0–600 ppm  
(alternate ranges available)

### Options and Accessories

#### - Datalogger and controller

*Complete with 2 GB flash memory and terminal program for self-contained measurement and logging.*

#### - Water pump and adapter

*Reduce biofouling and improve response rate.*

#### - Titanium housing for depths to 4000 m

#### - External battery pack

#### - Integration into CTD and other sensor packages

### Physical

Length 33 cm (13 in)  
Diameter 11.5 cm (4.5 in)  
Weight 2 kg in air (4.4 lbs)  
0.5 kg in water (1.1 lbs)  
Housing Delrin®  
Depth 0–350 meters (0–1150 ft)  
Temperature -2 to 30 degrees C (Standard)  
-2 to 40 degrees C (Optional)

### Electrical

Input voltage 12–18 VDC  
Power consumption 0.25 A  
(0.85 A during warmup)  
Optional water pump 0.15 A  
Data output: RS-232, ASCII format  
Optional analog 0–5 V or 4–20mA  
Sample rate 1.6 seconds (variable rate  
with logger/controller)

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