

CO₂-Pro™ FT

Features

- Fast response and high accuracy
- Long-term stable data for deployments of a year or longer
- Resistant to biofouling
- Real-time data output
- Large selection of concentration ranges
- Compact benchtop design
- Internal data logger and controller with 2GB flash memory

pCO₂ Sensor Applications

- Ocean acidification studies
- Long-term pCO₂ monitoring
- Shipboard flow-through pCO₂ measurements
- Laboratory experiments

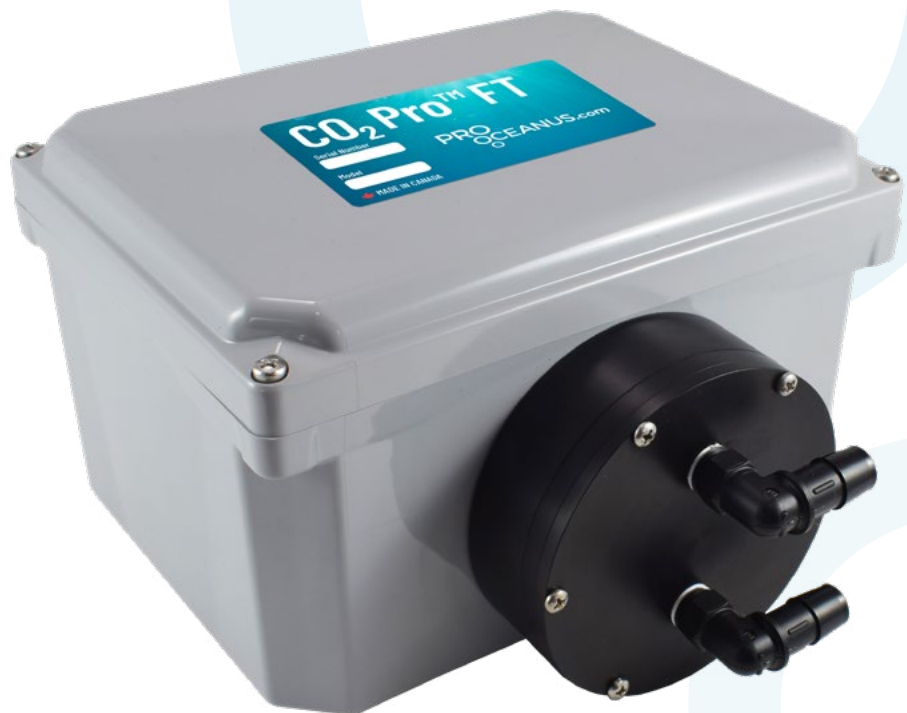
CO₂-Pro™ FT pCO₂ Sensor

The CO₂-Pro™ FT instrument measures the partial pressure of CO₂ gas dissolved in water using infrared detection. Standard ranges from 0-600 ppm up to 0-10,000 ppm provide the full spectrum of pCO₂ needed for accurate measurement of water CO₂ levels.

Labelled FT for Flow-Through version of our flagship CO₂-Pro™ instrument, the Pro-FT can be used wherever a supply of flowing sample water is available, including shipboard flow-through systems and laboratory testing.

The small size of the CO₂-Pro™ FT makes it versatile and easy to integrate into larger systems where space is a concern. When combined with system anti-fouling options, the instrument can perform in even the most biologically active waters for extended periods of time. An internal zeroing feature provides a stable long-term baseline to ensure accurate measurements.

The CO₂-Pro™ FT is factory calibrated using WMO traceable standard gases. In addition, detector temperature stabilization and measurement of gas steam pressure and humidity provide an accurate and stable measurement of pCO₂ in water.



CO₂-Pro™ FT

Sensor Specifications

Sensor Performance

Accuracy

CO₂ concentration ±0.5%

Resolution

CO₂ concentration 0.01 ppm

Zero drift

automatic zero compensation

Equilibration time (t_{63})

50 seconds (with water pumped head)

Standard range

0 - 600 ppm
(alternate ranges available) 0 - 1000 ppm
0 - 2000 ppm

Physical

Length 20 cm (8 in)

Width 20 cm (8 in)

Height 10 cm (4 in)

Weight (plastic) 2.7 kg (6 lbs)

Housing Plastic or Aluminum

Water Pressure Up to 3 bar

Water Temperature 0° to 30° C (Standard)
-2° to 20° C (Arctic)
15° to 40° C (Tropical)

Electrical

Input voltage 10-18 VDC

Power consumption 3 W (9 W during warmup)

Optional Water Pump add 1 W

Data output RS-232, ASCII format,
0-5 V or 4-20mA optional

Sample rate 1 second (variable rate with logger/controller)

Optional Accessories

Seabird Water Pump with cable

5P (Plastic) or 5T (Titanium)

Pigtail Cables with Locking Sleeve

5, 10, 25, or 50 meters



Pigtail Cable with Locking Sleeve



SBE 5T Water Pump

PRO Stability in a sea of change.
OCEANUS