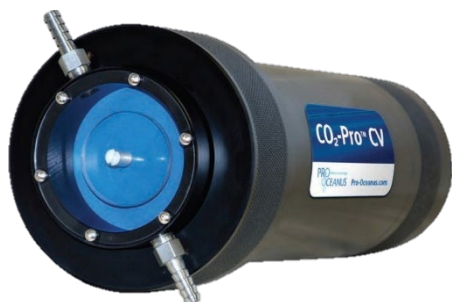


## CO<sub>2</sub>-Pro-CV Submersible pCO<sub>2</sub> Sensor

For partial pressure measurement of dissolved CO<sub>2</sub>.



The CO<sub>2</sub>-Pro™ CV measures the partial pressure of CO<sub>2</sub> gas dissolved in water using infrared detection. Standard ranges from 0-600 ppm up to 0-10,000 ppm, as well as custom ranges, are available that cover the full spectrum of pCO<sub>2</sub> needed for accurate measurement of ocean, coastal, riverine, and lake CO<sub>2</sub> levels.

With industry-leading pCO<sub>2</sub> accuracy and stability for submersible instruments, the CO<sub>2</sub>-Pro™ CV is the sensor of choice for most applications. Labelled the CV for Compact Version of our flagship CO<sub>2</sub>-Pro™ instrument, the Pro-CV can be deployed up to 6000 m depth, ideal for carbon capture storage monitoring and deep ocean CO<sub>2</sub> fluxes.

The small size of the CO<sub>2</sub>-Pro™ CV means it is easily transported and deployed in the field. When combined with our anti-fouling features and options, the instrument can perform in even the most biologically active rivers and lakes for extended periods of time. An internal zeroing feature provides a stable, long-term, baseline to ensure accurate measurements. A flow-through adapter is available for combination with a pump. The CO<sub>2</sub>-Pro™ CV is factory calibrated using WMO traceable standard gases. In addition, detector temperature stabilization and measurement of gas steam pressure and humidity provide accuracy unparalleled by small submersible pCO<sub>2</sub> instrument.

### Features

- High accuracy, long-term stability
- Easy integration into any system
- RS-232 or analogue data output formats available
- Optional data logger (>1 year of data storage)
- Large selection of concentration ranges
- Optional internal or external battery power

### Applications

- Ocean acidification
- Long-term ocean pCO<sub>2</sub> monitoring
- Deep Ocean studies
- Shipboard flow-through pCO<sub>2</sub> measurements
- Coastal zone CO<sub>2</sub> fluxes

<b>Accuracy</b>	± 0.05% CO <sub>2</sub> concentration
<b>Resolution</b>	0.01 ppm CO <sub>2</sub> concentration
<b>Zero Drift</b>	Automatic Compensation
<b>Equilibration rate (t63)</b>	50 Secs (with pumped head)
<b>Sample Rate</b>	1 Sec variable with logger
<b>Standard Ranges</b>	0 - 600, 1000, or 2000 ppm
<b>Depth Ranges</b>	600, 2000, 4000 or 6000 m

<b>Length</b>	380mm
<b>Diameter</b>	100mm
<b>Weight ( air / water)</b>	2.8 kg / 0.6 kg
<b>Operational Temp</b>	0 – +30 °C (+40 ° option)
<b>Input Voltage</b>	10 – 18 Vdc
<b>Power consumption</b>	3W (9 W warm-up)
<b>Data Output</b>	<b>Analogue</b> 0 – 5 V or 4 – 20mA
	<b>Digital</b> RS-232 ASCII

#### \*Options:

Data logger and controller, complete with 2 GB flash memory and terminal program for self-contained measurement and logging, with variable sampling rate (Required for digital output.)

Delrin or Titanium housings, Internal or External power & Battery Modules, Flow Head and Pump, Mooring Frames, Data & Power Cables

## Swale Technologies Ltd

6 Greenacres, Monument Park, Chalgrove, Oxfordshire OX44 7RW, UK

Tel: +44 (0)1865 582265 - Sales@swaletechnologies.com - www.swaleocean.co.uk