

# pCO<sub>2</sub> Monitoring System General Oceanics (GO pCO<sub>2</sub>)



## Attention:

Please note: The system runs continuously at all cruises. Support is given by the board electricians. Please ask them if you need specific info, or contact the responsible AWI scientist.

## Summary

The Model 8050 pCO<sub>2</sub> Measuring System is an autonomous analytical system for online measurement of the mixing ratio (partial pressure) of carbon dioxide in oceanic surface water and in the marine atmosphere.

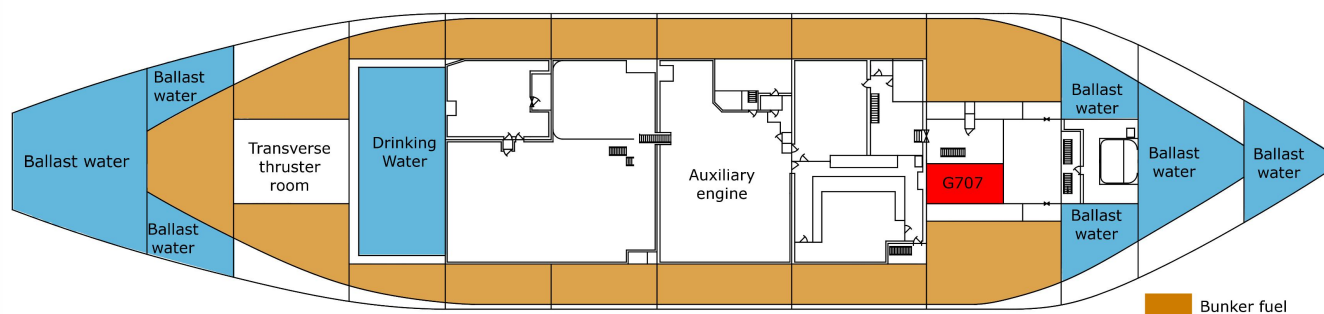
|               |                                 |
|---------------|---------------------------------|
| Manufacturer  | General Oceanics                |
| Model         | Model 8050 pCO <sub>2</sub>     |
| Serial No.    | n/a                             |
| Type          | pCO <sub>2</sub> Sensor         |
| REGISTRY-Link | <a href="#">REGISTRY (1398)</a> |



General Oceanics pCO<sub>2</sub> analyzer

## schematic drawing of Polarstern deck G

location of room G707 (General Oceanics and Ocean Pack pCO<sub>2</sub> systems, Ferrybox, ADCP electronics)



## Contacts

| Name          | Institution                                                              | Role           |
|---------------|--------------------------------------------------------------------------|----------------|
| Mario Hoppema | Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research | Data Scientist |

|                                                        |                                                                          |                    |
|--------------------------------------------------------|--------------------------------------------------------------------------|--------------------|
| Alfred Wegener Institute for Polar and Marine Research | Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research | Owner              |
| Hauke Becker                                           | Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research | Engineer In Charge |

## Components

### Position

|             |                                               |
|-------------|-----------------------------------------------|
| <b>Info</b> | no xyz-position given, device located in G707 |
| <b>X</b>    | 0.0 (no unit given)<br>(no description given) |
| <b>Y</b>    | 0.0 (no unit given)<br>(no description given) |
| <b>Z</b>    | 0.0 (no unit given)<br>(no description given) |

## Data logging, storage and archiving

### Logged parameters

| Parameter        | O2ARegistry Output Type | Unit    |
|------------------|-------------------------|---------|
| preliminary pCO2 | pCO2                    | atm     |
| Type             | index                   | unknown |
| preliminary xCO2 | concentration           | mol/mol |
| preliminary fCO2 | concentration           | mol/mol |

### Central geographical ship's position and time standard

### Rawdata storage on board

### Dship

### Data archiving on land

## Documentation

- [pCO2 General Oceanics datasheet \(Factsheet, 117 kB\)](#)