

pCO₂ Monitoring System General Oceanics (GO pCO₂)



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 pCO₂ 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.

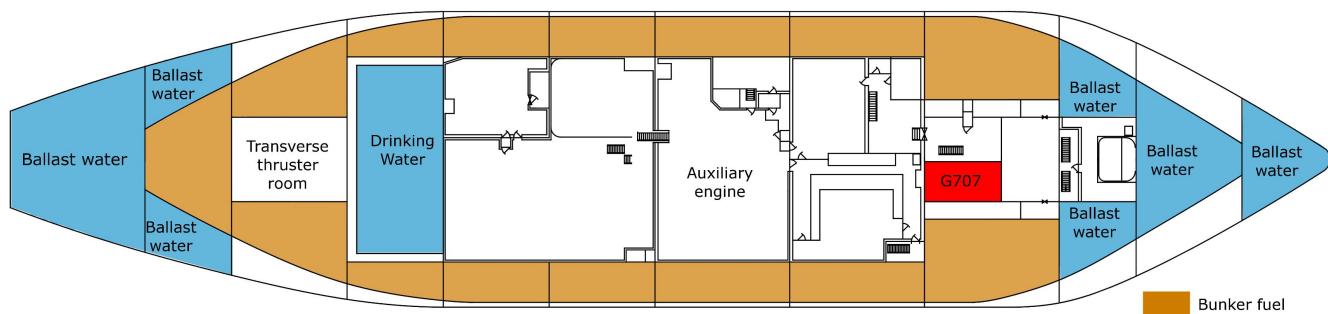
Manufacturer	General Oceanics
Model	Model 8050 pCO ₂
Serial No.	n/a
Type	pCO ₂ Sensor
REGISTRY-Link	REGISTRY (1398)



General Oceanics pCO₂ analyzer

schematic drawing of Polarstern deck G

location of room G707 (General Oceanics and Ocean Pack pCO₂ 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

Info	no xyz-position given, device located in G707
X	0.0 (no unit given) (no description given)
Y	0.0 (no unit given) (no description given)
Z	0.0 (no unit given) (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 \(Factsheet, 117 kB\)](#)