

# Metadata

|                                     |   |
|-------------------------------------|---|
| <b>Standardized Instrument Name</b> |   |
| <b>Scheme URI</b>                   |   |
| <b>Term URI</b>                     |   |
| <b>Instrument DOI</b>               |   |
| <b>Instrument Unique ID</b>         |   |
| <b>ID Type</b>                      |   |
| <b>Model No.</b>                    | 8050  |
| <b>Instrument Type</b>              | Baseline  |
| <b>Description</b>                  | The Model 8050 pCO <sub>2</sub> Measuring System is an autonomous analytical system for measuring carbon dioxide in oceanic surface water. The system is modeled after instruments previously built by Craig Neill/University of Bergen. The system may be used on a ship underway or, on a variety of at-sea platforms. The present pCO <sub>2</sub> system operates fully automatically |
| <b>Manufacturer</b>                 | General Oceanics  |
| <b>Manufacturer type</b>            | Organizational  |
| <b>Notes</b>                        | The pCO <sub>2</sub> system instrument is located in the engine room of the CCGS Amundsen.  |
| <b>Sensor Details</b>               |   |
| <b>Sensor Details 1</b>             |   |
| <b>Instrument Sensor Name</b>       | Pressure (Flow)   |
| <b>Instrument Sensor Serial No.</b> |   |
| <b>Sensor Range</b>                 | 0 -10 dbar  |
| <b>Sensor Sensitivity</b>           |   |
| <b>Sensor Units</b>                 | dbar  |
| <b>Last Calibration Date</b>        |   |

## Sensor Details 2

**Instrument  
Sensor Name** Temperature

**Instrument  
Sensor Serial  
No.**

**Sensor Range** -3 - +50 \_C

**Sensor  
Sensitivity**

**Sensor Units** degrees C

**Last Calibration  
Date**

## Sensor Details 3

**Instrument  
Sensor Name** Conductivity

**Instrument  
Sensor Serial  
No.**

**Sensor Range** 0 - 64 mS/cm

**Sensor  
Sensitivity**

**Sensor Units** mS/cm

**Last Calibration  
Date**

## Sensor Details 4

**Instrument  
Sensor Name** Oxygen

**Instrument  
Sensor Serial  
No.**

**Sensor Range** 0 - 25 ppm, 0 - 250% sat.,

**Sensor  
Sensitivity**

**Sensor Units** ppm, %

**Last Calibration  
Date**

## Sensor Details 5

**Instrument  
Sensor Name** pH

**Instrument  
Sensor Serial  
No.**

**Sensor Range** 0- .14 pH

**Sensor Sensitivity**

**Sensor Units** pH

**Last Calibration Date**

#### Sensor Details 6

**Instrument Sensor Name** Redox

**Instrument Sensor Serial No.**

**Sensor Range** -1000 to +1000 mV

**Sensor Sensitivity**

**Sensor Units** mV

**Last Calibration Date**

## Related Datasets

**Title** Carbon Sampling Data

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/fr/dataset/carbon-sampling-data>

## Campaigns

**Title** 2018 Spring Hudson Bay Wide CCGS Amundsen Campaign

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/fr/campaign/2018-spring-hudson-bay-wide-ccgs-amundsen-campaign>

**Title** 2017 Winter Nelson Estuary Landfast Ice Survey

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/fr/campaign/2017-winter-nelson-estuary-landfast-ice-survey>

**Title** 2017 Winter Churchill River and Mobile Ice Survey

**URL** <https://canwin-datahub.ad.umanitoba.ca/data/fr/campaign/2017-winter-churchill-river-and-mobile-ice-survey>