

SENSORWeb in MOSAiC

SENSOR aims to create an authoritative repository for managing platform, device and sensor-related metadata information.

SENSOR is based on the OGC standard SensorML (and device descriptions are downloadable in XML or JSON format). SENSOR also provides an API to export (and import) data programmatically. Two instances of SENSOR - one on Polarstern and one at AWI Bremerhaven- will run simultaneously throughout MOSAiC. They are synchronized on different levels throughout the day as long as network connection permits.

Data Contacts

Every group has assigned chief editors for there devices. They are your first contacts concerning SENSOR related questions. You find them here: <https://spaces.awi.de/x/VjyVEg>

You are always welcome to also contact the people of the O2A support team at o2a-support@awi.de

PLEASE NOTE:

- **All devices used in MOSAiC must be registered in SENSOR!**
- SENSOR can be accessed via <http://sensor.awi.de>

Metadata registered in SENSOR include the following:

- general (overview) information such as unique short names, serial numbers, short description etc.
- Properties: used for quality checks
- Contacts with different roles e.g. Editor, Owner, Principal Investigator.
- Actions: Deployment, Recovery, ...
- Resources: fact sheets, manuals, SOPs
- Parameters: measurement parameters with parameter types. Parameter types follow NERC vocabulary and are now matched to PANGAEA parameter types
- Subdevices: devices attached to the device



IMPORTANT!!!

- **ONLY** a contact with the role '**Data Provider**' will obtain write access in the respective directory on the MCS. Please make sure to enter the person that is actually onboard and observes the data flow is entered as editor or data provider.
- **EVERY device** needs a contact with the role '**Principal Investigator**'. This person will be contacted in the workflow for publishing raw data. We also need this contact in case we have questions regarding on the MCS stored raw data. Archiving data is not possible without a Principle Investigator.
- Please provide **data descriptions** for devices where data is available on the MCS! For details see [Data Description in SENSORWeb](#)
- Device operations entered in the [DShip Actionlog](#) appear under 'Actions' in SENSOR. Still, choice of available actions types is limited in SENSOR and therefore several action types in DShip are associated with the same action type in SENSOR.

You will find the extensive manual here: [SENSOR manual](#)

Overview

https://sensor.awi.de/?urn=vessel:polarstern:ctd_watersampler

Platform-Type: Vessel
Platform: RV Polarstern
Device: CTD Watersampler

Subdevices

Altimeter
Lowered Acoustic Doppler Current Profiler
SBE32 water sampler
SBE3plus temperature sensor
SBE4 conductivity sensor
SBE43 oxygen sensor
Transmissiometer

Parameters

conductivity
temperature
altimeter
transmission
oxygen
pressure
fluorescence

Overview

Long and short names
Manufacturer
Model-Nr.



Properties

- used for quality checks: e.g. Water temperature min/max values

Contact

Owner: AWI
Editor: Peter Gerchow
Engineer in Charge: Marius Hirsekorn
Principal Investigator: ...
Data Scientist: ...
Data Provider: ...

Resources

- factsheets
- calibration certificates
- manuals

Actions

Deployment
Recovery