

REGISTRY (formerly known as SENSOR)

The screenshot shows the AWI Registry web application. The top navigation bar includes the AWI logo, a home icon, a 'Browse' button, a search bar with the text 'temperature', and a 'LOGIN' button. On the left sidebar, there are categories: 'Parent Device Type' (Buoy (617), Mooring (259), Station (129), Pack_Ice (119), Vessel (78)), 'Subdevice Type' (temperature sensor (200), MicroCAT (156), meteorological package (79), CTD (61)), 'Expeditions' (M160 (16), moses_stern1_litorina_bis_hel (5), moses_stern1_litorina_hel_bis (5), moses_stern2_uhoem_cux_hel (4), moses_stern2_uhoem_hel_bhv (4)), 'Parameters' (temperature (696), latitude (548), longitude (548), date and time (465), pressure (320)), 'Action type' (Deployment (873), Information (295), Total failure (259), Recovery (193), Mount (130)), and 'Action' (PS122-1 (36), Initial configuration (32)).

The main content area shows search results for 'temperature'. It includes a search bar with 'temperature' and a 'Q' button. Below the search bar, there are tabs for 'Sort by relevance' (selected), 'Sort alphabetically', and 'Has no Parent:'. The results are displayed in a table with columns: Info, Long Name, Short Name, URN, Item State, and Tools. The table lists 15 items, including 'Temperature, Water', 'Conductivity-Temperature-Depth Probe', 'temperature sensor', 'Air temperature and relative humidity', 'Humidity and Temperature Sensor HMT333', 'ibutton temperature', 'Infrared temperature', 'Temperature Sensor No 1 with Magnet for Logger DK 312 No 3', 'bottom temperature recorder', and 'bottom temperature recorder'.

Showing 1 to 15 of 1517 entries

Navigation: < 1 2 3 4 5 6 7 8 9 >

Related Links

- REST services <https://registry.awi.de/api/>
- SensorML output <https://registry.awi.de/rest/sensors/device/getDeviceAsSensorML/625> (example for ID 625)
- JSON output including children: <https://registry.awi.de/rest/sensors/device/getDetailedItem/458?includeChildren=true> (example for ID 458)
- Videos <https://www.youtube.com/channel/UCijKBoLBJqy8XASA3QKrRx/>

REGISTRY.awi.de aims to create an authoritative repository for managing platform, device and sensor-related information. It was launched in August 2016 and it will be continuously improved in the form of bi-annual release packages. It supports:

- Autocompletion of **station metadata** (required under "Actions") for all **large and medium-sized german research vessels** (Polarstern, Sonne, Meteor, Alkor, Heincke, Merian and Poseidon) using PANGAEA expedition catalogue
- Metadata **versioning** including minting of **PIDs** for individual versions along with **citation**. Example: <https://hdl.handle.net/10013/sensor.7bdbc478-a4c9-4eb9-917d-9a89ee098774#subItemID=625&subItemEventID=3634>
- **Provenance metadata** for repositories as **good-scientific practice**. Example: <https://doi.pangaea.de/10.1594/PANGAEA.857507> links dataset in PANGAEA to sensor description, under event information <https://hdl.handle.net/10013/sensor.664525cf-45b9-4969-bb88-91a1c5e97a5b>
- Management and discovery of standard **sensor-specific** information (e.g. manufacturer information, inventory number, history of actions, precision, photos, etc),
- Management and discovery of **data-specific** information (calibration reports, physical characterization of individual sensors, etc),
- Management of **parameter properties** that trigger the **automatic quality flagging**
- Management of specification for **automatic data transfer** and ingest
- Bookkeeping of **ownership/affiliation** of devices
- **Machine-friendly** access to metadata. Example: OGC compliant output standards,
- Sensor properties are used in machine-friendly **monitoring of data streams** in near real-time (see [DASHBOARD](#))
- **Re-use** in AWI-operated portals and various national and international service infrastructures. Example: <https://data.awi.de/?site=platforms>
- Use on board of **RV Polarstern** including **synchronization of DSHIP** action log with sensor actions

Recommended videos