

## Marine Hydrokinetic Instrumentation and Sensor Database and Community of Practice

*In support of laboratory and field testing of Marine and Hydrokinetic (MHK) systems, the U.S. Department of Energy (DOE) has developed open source online tools to help the international MHK community share information on MHK instrumentation and lessons learned.*

### Instrumentation and Sensor Database

The instrumentation database is a comprehensive searchable collection of information and user experiences for instrumentation and sensors that are relevant for testing MHK systems in the field and laboratory. DOE invites you to join us for a brief demonstration of the database via webinar on November 9 at 2 p.m. GMT or November 10 at 6 p.m. GMT. Please email [Frederick.driscoll@NREL.gov](mailto:Frederick.driscoll@NREL.gov) to register for the webinar.

The screenshot shows the MHK Instrumentation & Sensor Database interface. At the top, there is a search bar labeled "Search by Text" and a "Menu" button. Below the search bar, there are filter options for "View Devices By:" including Device Type (Instrument/Sensor), Deployment Type (Field/Laboratory), Signal Type (Analog/Digital), Operating Environment (Above Water, Dry Enclosed Space, Splash Zone, Underwater), and Measurement Type (Condition Monitoring, Electrical & Power, Hydraulic, Meteorological, Motion, Noise, Oceanographic, Structural Loads). A list of instruments and sensors is displayed, including the Air Pressure Sensor 2810, Air Temperature Sensor 3455, and Conductivity & Temperature Sensor 4119. A detailed view of the Conductivity & Temperature Sensor 4119 is shown, including its manufacturer (Aanderaa), measurement category (Oceanographic), operating environment (Underwater), versions, and a link to the device specification sheet. Annotations with arrows point to various features: "Links to: FAQ, Search, Add Devices, Community of Practice" points to the menu; "Search Results: Device Descriptions, Link to Device Pages" points to the list of sensors; "Device Details" points to the sensor's description; "Link to Device Specification Sheet" points to the spec sheet link; "Link to Product Webpage" points to the product web page link; "Additional Notes" points to the notes section; and "User Reports" points to the user experience section.

### Community of Practice

The online MHK Community of Practice is a forum to engage in constructive dialog to exchange ideas, share experiences and lessons learned across a broad range of testing and instrumentation topics. The community is structured to be open for anyone to ask questions and/or provide answers on topics.

[http://en.openei.org/wiki/MHK\\_ISDB](http://en.openei.org/wiki/MHK_ISDB)