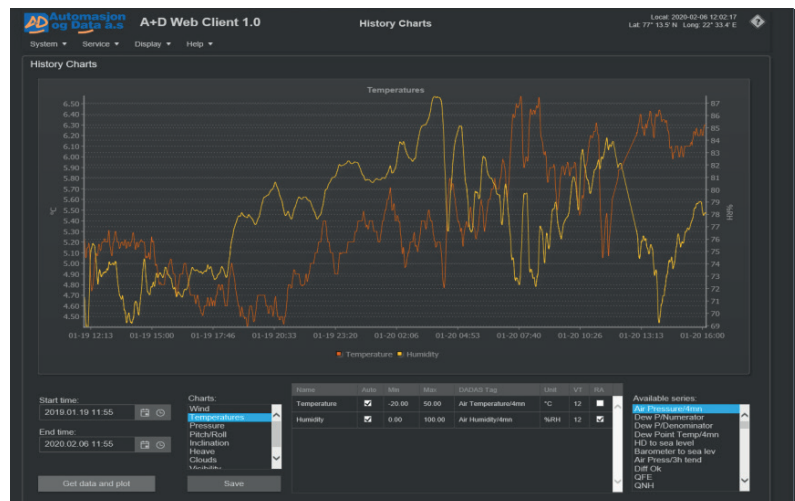
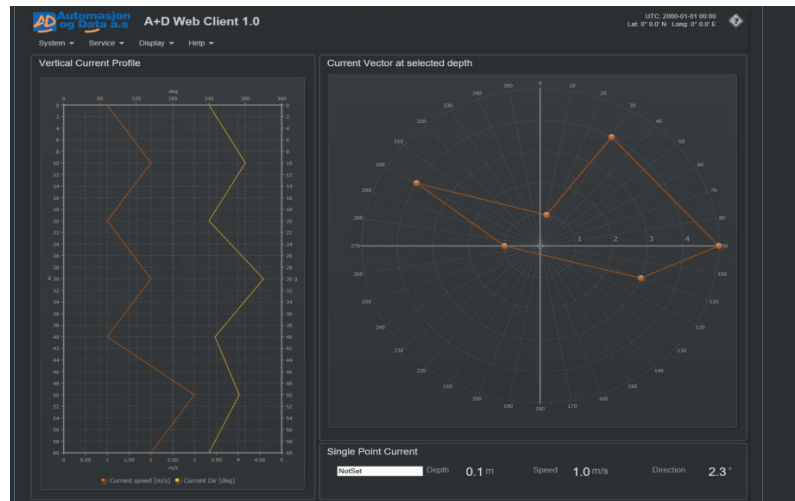


ENVIRONMENTAL MONITORING SYSTEMS



Environmental Monitoring Systems, often known as EMS/EMP systems, Weather Stations, Meteo systems or MetOcean systems - are a very important tool for many users onshore and offshore. These EMS-systems provide vital data for weather-critical operations, valuable corrections to weather forecasting and statistical data for environmental criteria.

EMS systems are very flexible and easy to modify or expand. Additional sensors, inputs and outputs can easily be added or changed whenever required. The DADAS software package has been used in offshore applications for more than 20 years and has proven very user friendly and reliable for unattended operations in harsh environments. Data displays can be designed and configured according to the clients specific needs. A number of display pages showing various data display combinations, graphical and historical presentation and other information can be set up.

Data can easily be interchanged with other systems and specific data output formats can be configured to local or remote users. Data from offshore or remote systems can be sent to onshore users or remote users through a wide variety of data transfer methods, data lines, paper reports, email reports or web pages. A DADAS Web version is also available.



Weather Stations

We can deliver and install everything from a single wind sensor to complete weather stations, including ship mounted systems. Such systems could include:

- Wind sensors
- Meteorological sensors
- Display systems
- Meteorological

Meteorological Sensors and Systems

WISE engineers have vast experience in selecting, operating and maintaining the best sensors for the challenging operational conditions offshore. Only sensors with an excellent track record will be recommended for use in such critical applications.

Such systems could include:

- Wind sensors / Wind profilers / LIDARS
- Meteorological sensors
- Sensor masts and accessories
- Data acquisition systems
- Communication equipment

Oceanographic Sensors and Systems/Current Profiling Systems

Through many years of offshore experience we have learned how to select equipment that will survive extreme conditions. We have also learned how to design and install sensor deployment systems that can be operated in the most extreme weather conditions.

We can deliver and install everything from a single wave buoy or current sensor to complex current profilers or ADCPs for more than 1000 meters water depth.

Such systems could include:

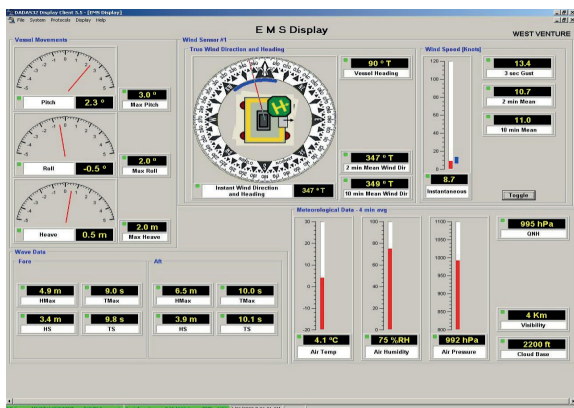
- Oceanographic sensors, deployment systems
- Current sensors and profilers
- Wave sensors and wave radars
- Wave Buoys and MetOcean Buoys
- Data acquisition systems
- Communication equipment



Environmental Monitoring Systems—EMS / EMP

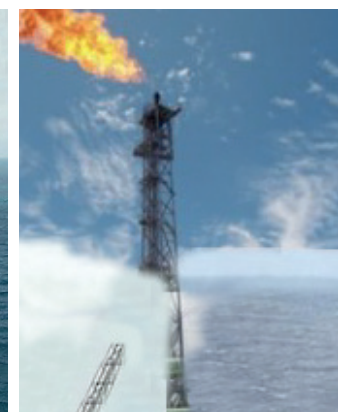
- EMS systems or MetOcean Systems is often comprehensive systems that is intended to serve many users and purposes onboard. Both marine operations, aviation users, weather services, subsea operations and other users needs such data in their daily operations. Long term statistics are used for structural calculations, design considerations, climate studies and many other purposes.

- An EMS systems can be integrated with other systems such as Helideck Monitoring System, Mooring Line System, Structural Stress Monitoring System or Current Profiler system in order to get data from multiple sources into one system and avoid duplication.



Such systems could include:

- Meteorological sensors incl. wind profilers
- Oceanographic sensors incl. current profilers
- Motion Monitoring sensors
- Air Gap measurements
- Structural sensors, hull stress measurements
- Vibration measurements
- Condition monitoring
- Oil Spill Monitoring—Early Warning systems
- Mooring Line monitoring
- Data acquisition systems
- Communication equipment
- Helideck Monitoring System incl. METAR and SYNOP



Integrated Marine Monitoring Systems—IMMS

- Large offshore structures have many integrated systems for asset monitoring and the Environmental Monitoring System are often the backbone in such systems.

- A complex integrated monitoring system can be designed to communicate a number of specialized systems onboard. In some cases this may replace SCADA systems and avoid duplication of equipment installation and save costs.

Such systems could include:

- Environmental system
- Pollution / Oil Spill system
- Structural sensors
- Condition monitoring
- Excursion monitoring
- Turret monitoring
- Ballast systems
- Marine Visualization system
- Data acquisition systems



Installation and commissioning services Offshore experience

We have a well qualified team of field service engineers who can undertake service work on all kinds of meteorological and oceanographic sensors and systems.

All our engineers have extensive experience from offshore work, shipyard work and onshore work.

Onshore service and calibration services

We are also able to service and calibrate all kinds of sensors and MetOcean equipment used in offshore renewable projects. Our workshop is equipped for servicing and calibrating many different kinds of sensors and instrumentation.

Operation and maintenance services - O&M

The WISE team of field service engineers can also undertake O&M service work on MetOcean sensors and systems as well as on other kinds of sensors and systems. Our engineers can take care of preparing O&M schedules, carry out maintenance visits, analyse data, service equipment and many other related tasks.

We can also offer online preventive service contracts for systems that can be reached online.



Turn-key instrumentation projects

We can take full responsibility for all aspects of offshore instrumentation projects from design of the system, engineering, system integration, installation, commissioning, operation and maintenance to data management and data analysis.

CERTIFICATIONS:

WISE GROUP:
ENVIRONMENTAL INSTRUMENTATION
IS OUR SPECIALITY!

