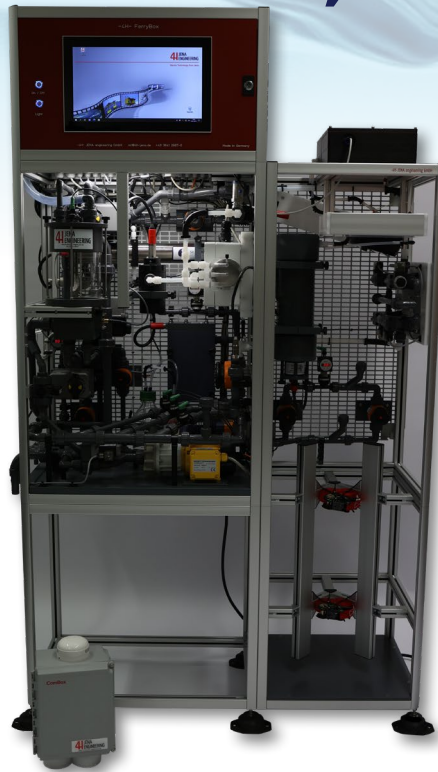


-4H-FerryBox



VERSATILE SYSTEM FOR OPERATIONAL WATER MONITORING

Reduce the cost of unattended long-term and multiparameter observations for any maritime study

Operational monitoring of coastal waters and shelf seas is mainly carried out by manual sampling, buoys and analysis during ship cruises. These systems are strongly affected by biofouling and the operational and maintenance costs are high. In order to overcome the restrictions, the -4H-FerryBox is a solution for unattended automatic operation over prolonged periods on ships, research platforms, oil rigs containers or coastal and inland waterways platforms.

The -4H-FerryBox is an automatic, low-maintenance, flow-through system which allows for integration of sensors from different manufacturers as well as the connection of external analyzers and automatic samplers. The integrated automatic cleaning and antifouling system facilitates measurements in both highly productive water and water containing a high load of suspended matter (including Arctic and tropical areas), while maintenance is kept to a minimum.

OPERATING PRINCIPLE

The intuitive software for control, data management and data visualization allows the operator to run and maintain the system easily. An implemented event control can start water samplers and alert operators by e-mail or SMS. In conjunction with a corresponding communication module remote control, telemaintenance as well as geo-tagged measurements or even series of position-dependent measurements are possible.

CUSTOM PROJECTS

- Available as pressureless, open and extendable system...
- ...or pressure resistant system, also suitable for installations below the water line
- Can be integrated with complex sampler systems
- Choice of debubbler, water supply pump, coarse filter, and wastewater tank
- A ComBox can be added for data transmission

-4H-FerryBox

APPLICATIONS

Basic four -4H-FerryBox parameters are conductivity, temperature, salinity, oxygen concentration and saturation, total chlorophyll, turbidity, pH and intake temperature.

Optional parameters include pCH₄, pCO₂, crude oil, dissolved nutrients, NO_x, NO₂, PO₄, NH₄, silicate, Phycocyanin, Phycoerythrin, Flourescein, Rhodamine, CDOM/FDOM, water level, COD eq, TOD eq, BOD eq, global radiation, wind direction and speed, air temperature and pressure, relative humidity, precipitation and transmission.

FEATURES

- Acquisition of physical and biogeochemical data for mathematical climate models
- Automated low-maintenance system with automated cleaning procedures
- Optional ComBox enables:
 - Data transfer via Satellite, GPRS, UMTS or WiFi/LAN
 - Event triggered operation modes, with remote supervision and parameterization



CONTACT -4H-JENA

Get in touch to find out how the -4H-FerryBox can enable more efficiency and quality for any long-term marine research project.

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CONTACT YOUR LOCAL REPRESENTATIVE

The -4H-FerryBox enables climate researchers to contribute towards meeting the United Nations Sustainable Development Goals.

