

CTD/O₂ Fast Profiling Probe System

Direct reading probe or memory probe system

- Sensors for dissolved oxygen (galvanic micro-sensor), conductivity, temperature and depth
- Very easy sensor replacement (can be done by the user)
- Windows software for displaying chemical and physical data, including charts
- Fully customizable display of values (oxygen, conductivity, temperature, depth)
- Titanium housing with protective cage
- Subconn titanium connector
- Compact design
- Low weight
- light cable (6 mm diameter)
- Low operating costs for replacement of chemical sensors



The CTD/O₂ Fast Profiling Probe System was developed above all for the very fast profiling of the parameters oxygen, conductivity/salinity and temperature in shallow waters up to 100 m depth. This is possible because of the new galvanic oxygen micro-sensor with response times of down to 200 milliseconds for t_{90%}. This sensor needs no more streaming of the sensor membrane due to the very low analyte consumption. The new probe system features a microprocessor-operated 16-bit multi-channel ADC and offers RS-232, RS-485 output, with flexible battery or external power options. On request it can be delivered also with a cable drum with 5-pole slip-rings for easy profiling.

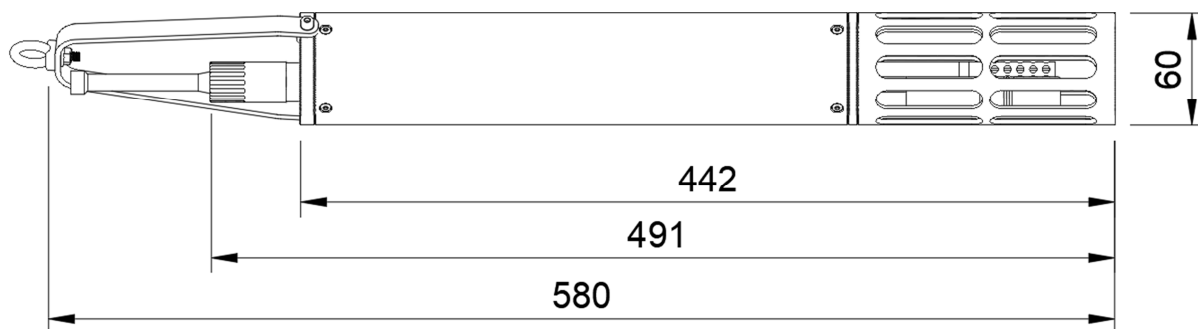


sensor	principle	range	accuracy	resolution	response time
pressure	Piezoelectric resistance bridge	10 bar	± 0.1 % FS	0.002 % FS.	150 ms
temperature	Pt 100	- 2 ... + 40 °C	0.005 °C	0.0006 °C	150 ms
conductivity	7-pole quartz glass cell	0 ... 60 mS/cm	0.01 mS/cm	0.001 mS/cm	150 ms
oxygen	Galvanic micro-sensor	0...150% sat. others on request	2% of Measurement	0.01% sat.	> 200 ms

Technical Data

Dimensions: Ø 60 mm, Length: approx. 490 mm (See image below)
 Weight (air-filled): approx. 2,5 kg
 Material: Titanium
 Connector: Subconn MCBH8M
 Voltage Supply: 12 V DC other on Request
 Current Consumption: approx.: 40mA with Online Probe version
 Data Transmission: RS232, optional RS485

Memory model:
 Internal Power Supply: rechargeable LiFePO4 battery (19Wh)
 Storage Capacity: 4 GB



The specifications provided in the datasheet are subject to change without notice, as the devices are continuously being further developed and improved.

