ENABLING

MICROSCALE

RESEARCH

Unisense Field DataLogger Mini

One Simple, Smart and Small Field DataLogger for your measuring needs

Our new Field Datalogger Mini offers you a cost effective way of applying all our sensors *in situ*. With deepsea rating to 6000 m and long battery life, you can now deploy our sensors in applications that earlier was impossible.

- 6000 m depth rating
- 2 or 4 channel versions available
- Up to 14 days of deployment time
- Measure ultra low oxygen
- Export for SensorTrace Logger
- Direct or cable sensor connection

Measure Ultra-Low Oxygen Concentration (<10nM) with using our STOX sensor
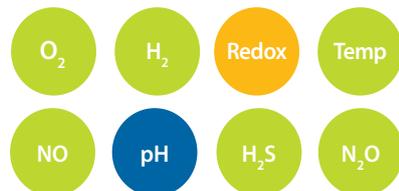
The Field DataLogger Mini offers full STOX support and enables studies of ultra-low oxygen concentrations in e.g. oxygen minimal zones and other environments containing ultra-low oxygen. The STOX microsensor differs from the standard oxygen microsensor in having two sensing cathodes.
This setup allows for frequent zero calibration *in situ* and thus enables the sensor to measure extremely low oxygen concentrations.

Measure unique analytes

Measure H_2S, O_2, pH, Redox, H_2 and N_2O (50 m depth only). The Field DataLogger Mini allows studies of unique analytes, plus studies utilizing fast responding sensors (seconds), giving you an opportunity to monitor and obtain unique data in a cost-effective way.

O_2 H_2 Redox Temp
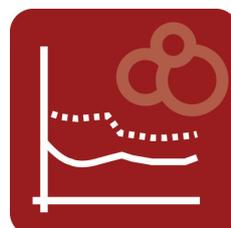
NO pH H_2S N_2O

Link to ADV's, CTD's and other platforms

The flexibility of our Field DataLogger Mini enables you to integrate it into your current platform. Power your Field DataLogger Mini from your CTD, ADV or other source using a 6-28 V supply, and store and synchronize your measured data on your device via our 0-5 V analog output!

Easy setup and data export

Connect sensors, apply polarization and run! After deployment, import data into SensorTrace Logger for visualization of raw and calibrated values. SensorTrace Logger allows you to export into e.g. Excel for further analysis.

SPECIFICATIONS

	FIELD DATALOGGER MINI
CONTROLLER UNIT	
Housing	9.5 cm OD x 28 cm
Volume	1.98 L
Weight - Air (Water)	4.4 Kg
Operating Temperature	-10 - 60 °C
Depth range	0-300 m or 0-6000 m
CPU (Memory)	180 MHz
Data Storage	8 GB, optionally 32 GB
BATTERY CAPACITY	13 Ah @ 7.4 V
Deployment time	up to 14 days @ 25 °C
EXT. BATT. CAPACITY	2x13 Ah @ 7.4 V
Deployment time	adds 28 days @ 25 °C
DIRECT POWER SUPPLY	Yes 16-28 V
ANALOG OUT	0-5 V
ANALOG-TO-DIGITAL CONVERTER	
Resolution	16 bit
Logging Speed	1 Hz
Channels	2, optionally 4
Input Range	±6 V
UNISENSE MICROSENSOR AMPLIFIERS FOR pA AND mV SENSORS	
Response time $t_{90\%}$	< 40 ms
Integrated input noise current (peak - peak)	0.1 pA, 0.1 mV
SOFTWARE	SensorTrace Logger
WARRENTY	1 year