

-4H-PocketFerryBox

Operating principle:

The **-4H-PocketFerryBox** is designed for high-precision measurements of multiple water parameters and constituents. The compact and user-customized design in a portable case opens new perspectives of monitoring tasks. The possibilities range from stationary monitoring to position-controlled operation onboard small boats. The system is designed for autonomous environmental monitoring and is operable with either a power supply unit or a car battery. The compact size and weight facilitates this mobile system to be easily carried to the measuring area.



Technical specifications:

Length: 60 cm
Width: 40 cm
Height: 40 cm
Weight: approx. 35 kg

Accessories:

GPS
Telemetry
Rechargeable battery pack



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<i>Basic parameters</i>	<i>Range</i>	<i>Accuracy</i>
Conductivity	0 ... 70 mS/cm	0.003 mS/cm
Temperature	-5 ... 35 °C	0.002 °C
Salinity	2 ... 42 PSU	0.005 PSU
Oxygen conc.	0 ... 500 µmol/l	8 µmol/l
Oxygen sat.	0 ... 120%	0.4%
Total chlorophyll	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
<i>green algae</i>	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
<i>cyanobacteria</i>	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
<i>diatoms</i>	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
<i>dinoflagelates</i>	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
<i>yellow substances</i>	0 ... 200 µg/l	0.01 µg/l
<i>cryptophytes</i>	0 ... 200 µg Chl-a/l	0.01 µg Chl-a/l
Turbidity	0 ... 750 NTU	0.2 NTU
pH	0 ... 14	0.1
Intake temperature	-5 ... 35 °C	0.001 °C

<i>Optional parameters</i>	<i>Range</i>	<i>Accuracy</i>
pCO ₂	0 ... 3000 ppm	1 %
CH ₄	0 ... 50 µmol/l	3 %
Phycocyanin	0 ... 40,000 ppb	2 ppb
Phycoerythrin	0 ... 750 ppb	0.15 ppb
Fluorescein	0 ... 500 ppb	0.01 ppb
Rhodamine	0 ... 1000 ppb	0.01 ppb
CDOM/ FDOM	0 ... 2500 ppb	25 ppb
Crude oil	0 ... 2700 ppb PTSA	30 ppb PTSA
COD eq	0 ... 5000 mg/l	5 %
TOD eq.	0 ... 500 mg/l	5 %
BOD eq.	0 ... 5000 mg/l	5 %
Global radiation	0 ... 2000W/m ²	0.012
Wind direction	0 ... 360 deg	2 deg
Wind speed	0.7 ... 50 m/s	1 m/s
Air temperature	-70 ... 90 °C	0.1 °C
Air pressure	600 ... 1100 hPa	10.5 hPa
Relative humidity	0 ... 100%	2 %
Precipitation	0 ... 4 ml/min	0.1 ml/min
Transmission	0 ... 100%	1 %

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