Technical Data basic module

 $robust,\,2m\,long\,spiral\,cable\,made\,from\,polyurethan\,with\,copper\,core$

impact-resistant, temperature stable synthetic material, (watertight)

protection class: IP65

Power Supply

rechargable batteries 4x 2 V incl. external charger

operation period: up to 15 hours depending on

measuring mode and connected sensor

Data logger function (optional)

Electronics:

Power consumption in power-down Mode: 140µA Flash-Controller: M16C 16-Bit with integrated Watch-dog IC-Clock

Memory: serial Flash-Memory with 1MB (approx. 70,000 measuring values)

Channels: max. 32

Measuring interval: user-selectable > 2 minutes (automatic storage) as well as manual storage possible

Digital indication

alphanumerical 3 line LC-Display for indication of current value

Operation and Display:

- Display (3 lines, 16 characters 3.65mm)

- 3 keys

Interfaces:

- RS 232 (communication & charging)

- RS 485 (sensor-interface)

Operating Temperature:

- working temperature: -15°C to +50°C

- storage temperature: -40°C to +80°C

Dimensions:

- height 150mm, with handle 225mm; Ø 130mm;

- range of spiral cable: 0,6...2m

weight without probe: approx. 2,5 kg

Connectable Sensors:

- multiparameter sensor MPS-D3 (V4a steel) - multiparameter sensor MPS-D8 (V4a steel)

- multiparameter sensor MPS-K16 (plastic)

Sensor Body

non corrosive V4a steel or PVC

Technical Data Sensors

Parameter Measuring ranges 0...200 m temperature: -5...50°C water level -5...50°C pressure: 0...50 bar temperature conductivity 0...200mS temperature: -5...50°C pressure: 0...50 bar 0...200,000mg/l temperature: -5...50°C pressure: 0...50 bar total dissolved solids (TDS) salinity temperature: -5...50°C pressure: 0...50 bar 988...1,060 g/l temperature: -5...50°C pressure: 0...50 bar

oxygen (amperometric)

0...40mg/l temperature: 0...50°C pressure: 0...10 bar

0...25mg/l temperature: 0...50°C pressure: 0...10 bar oxygen (optical) 0..400% saturation temperature: 0...50°C pressure: 0...10 bar oxygen saturation

-1,200mV...1,200mV temperature: 0...50°C pressure: 0...20 bar redox (ORP)

0.01...17000mg/l temperature: 0...50°C pressure: 0...0,5 bar ammonia

Parameter Measuring ranges

0.4...60,000mg/l temperature: 0...40°C pressure: 0...20 bar

1...35,000mg/l temperature: 0...50°C pressure: 0...20 bar chloride

ammonium

0.2...18,000mg/ temperature: 0....40°C pressure: 0....1 bar

0.2..20,000mg/l temperature: 0...50°C pressure: 0...6 bar

0.5...40,000mg/l temperature: 0...40°C pressure: 0...1 bar calcium

0.2...20,000mg/l temperatuer: 0...40°C pressure: 0...1 bar

0.4...39,000mg/l temperature: 0...40°C pressure: 0...1 bar potassium

0.03...500µg/l Chl a temperature: -2...50°C pressure: 0...60 bar chlorophyll a (optical)

150...2,000,000 cells/ml temperature: -2...50°C pressure: 0...60 bar cyanobacteria (optical)

0.04...1,000ppb RWT temperature: -2...50°C pressure: 0...60 bar rhodamine WT (optical)

turbidity (optical) 0...1.000NTU

total suspendid solids approx. 5 fold measuring range turbidity mg/l

temperature: 0...50°C pressure: 0...10 bar with wiper 0 20 bar without wiper

The right is reserved to change or amend the foregoing technical specification without prior notice.



SEBA Hydrometrie GmbH

For further information on Multiparameter Sensors please see

separate brochure on Water Quality Monitoring

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represented by:



SEBA Checker-2

Versatile water quality measurement in surface water











www.seba.de

Quality Measurements with SEBA Checker-2

The SEBA Multi-parameter system Checker-2 has been developed as a mobile field laboratory especially for determination of water quality parameters in surface water.

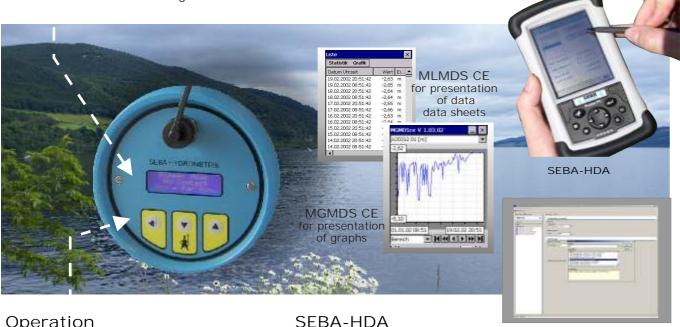
The Checker-2 has an extremely compact design, easy operation with fast and precise acquisition of various water quality parameters. The current measured values are clearly displayed.

Optionally, the instrument can be equipped with an integrated data logger with a storage capacity of up to 70,000 values for an automatic or manual data recording.

Checker-2 in Detail

Display

3-lines Display with background lighting for clear indication of current measuring values.



Operation

The instrument can be operated via 3 watertight keys on the front. It is very user-friendly and menuquided.

Your alternative to using a Notebook for programming, read-out of the stored files as well as for local visualisation of measuring data.

SEBAConfig operation via Laptop

Data Logger

Full data logger functionality (optional) is possible for the automatic storage of up to 70,000 measured values. Instant logs can be obtained manually at the push of a button, suitable for quick assimilation of water quality profiles.

Read-out and setting of measuring frequency via RS 232-interface with SEBA-HDA or laptop.



RS 232 Interface & Charging

for operation of the data logger, adjustment and calibration of the multiparameter sensors.



Charging of the internal batteries with included charger



Multiparameter Sensor

Double plug-in, maintenance-friendly high-quality-steel probe (MPS-D3, MPS-D8) or single plug-in plastic probe MPS-K16 for connection to Checker-2 or KLL-Q-2.

Individually configurable with various sensors (e.g pH, O_2 , conductivity etc.)

For a detailed description of possible configurations refer to our Water Quality Monitoring brochure.

RS 485

for connection of the MPS on the backside of the instrument



- Water level
- Temperature Conductivity
- total disolved solids(TDS)
- salinity
- water density
- Oxygen
- Oxygen saturation pH-value
- Redox (ORP)
- Ammonia
- Ammonium

Nitrate

Chloride

Fluoride

- Sodium Calcium
- Potassium
- Chlorophyll a Cyanobacteria
- Rhodamine WT
- Turbidity
- total suspended solids(TSS)

