Technical Data basic modul

4-cores round cable, polyethelene V2a-conductors with copper core, black cm-division with dm-marks and m-indications

impact-resistant, temperature stable synthetic material, with supporting frame made of aluminium

rechargable batteries 4x 2 V

operation period: 8...15 hours depending on cable length and

Cable lengths: 50, 100, 200, 300, 500 m

Digital indication

alphanumerical 3 character LC-Display for indication of current value

non corrosive stainless steel V4a or PVC

Connectable Sensors:

- multiparameter sensor MPS-D3
- multiparameter sensor MPS-D8
- multiparameter sensor MPS-K16

Data Logger Function (Option)

Electronic System:

- internal power supply: 8V (4x2V Lead gel akku)
- external charger
- power consumption in power-down Mode: 140µA
- Flash-Controller M16C 16-Bit with integrated Watch-dog
- serial Flash-Memory with 1MB (approx. 70,000 measuring values)
- channels: maximal 32

Operation and indication:

- display (3 lines, 16 characters 3.65mm)
- keyboard with 3 keys

Interface

- RS 232

Input /Output sensor connection:

chloride

ammonium

natrium

Technical Data sensors

Parameter Measuring ranges

0...200 m temperature: -5...50°C

-5...50°C pressure: 0...50 bar temperature

conductivity

temperature: -5...50°C pressure: 0...50 bar

0...200,000mg/l temperature: -5...50°C pressure: 0...50 bar

temperature: -5...50°C pressure: 0...50 bar

density

988...1,060 g/l temperature: -5...50°C pressure: 0...50 bar

oxygen (amperometric)

salinity

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

oxygen (optical)

0...25mg/l temperature: 0...50°C pressure: 0...10 bar

0..400% saturation temperature: 0...50°C pressure: 0...10 bar oxygen saturation

-1,200mV...1,200mV redox (ORP)

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

For further information on Multiparameter Sensors please see

separate brochure on Water Quality Monitoring

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

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 calcium

temperature: 0...4 pressure: 0...1 bar

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

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 cyanobacteria (optical) temperature: -2...50° pressure: 0...60 bar

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

temperature: -2...50° pressure: 0...60 bar 0 1 000NTU

turbidity (optical) temperature: 0...50°C pressure: 0...10 bar with wiper 0...20 bar without wiper

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.



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Internet: www.seba.de

represented by:



Water Quality Dipper Type KLL-Q-2

Multifunctional Water Quality Measurements in Groundwater or Lakes



NEW:

with round cable and integrated data logger for automatic and manual data recording

Measuring parameters

- Water level
- Temperature
- Conductivity
 - Total Dissolved Solids (TDS)
 - Salinity
 - Density
- Dissolved oxygen
 - oxygen saturation
- pH-Value
- Redoxpotential (ORP)
- Ammonia
- Nitrate
- Chloride

Ammonium

- Sodium
- Calcium
- Fluoride
- Potassium
- Chlorophyll a
- Cyanobacteria
- Rhodamine WT Turbidity
 - Total Suspended Solids (TSS)









www.seba.de

Quality Measuring with KLL-Q-2

The SEBA-KLL, type KLL-Q-2 is a unique mobile field laboratory for measurements of water quality at groundwater or surface water measuring sites. Suitable for 50mm (2") diameter wells. The instrument has an extremely compact design, easy operation with fast and precise acquisition of many 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. By default, the KLL-Q-2 is supplied with an accoustic signal device when the sensor touches the water surface. The new graduated round-cable with robust PE-covering (laserprinted, cm/dm/m) is fade proof and abrasion resistant.

KLL-Q-2 in Detail

Display

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

RS232 Interface

Comfortable calibration of Multiparameter sensors via operation Software SEBAConfig and your PC/Notebook.



Keys

SEBA-HDA

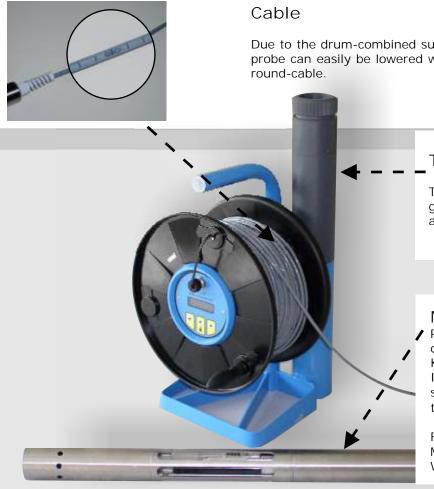
SEBAConfig operation with Laptop

friendly and menu-guided.

The instrument can be operated via Your alternative to using a Notebook for programming, 3 keys on the front. It is very user- read-out of the stored files as well as for local visualisation of measuring data.

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.



Due to the drum-combined supporting-frame the Multiparameterprobe can easily be lowered with our new improved laser-printed

Transport-Container

The comfortable transport-container guarantees for a fast readiness as well as for a safe storage of the probes.

Multiparameter Sensor

/ Plug-in, maintenance-friendly highquality-steel probe for connection to KLL-Q-2 or MPS-Checker. Individually configurable with different sensor-systems (e.g. pH, O₂, conductivity etc.)

For a detailed description of the Multiparameterprobe please see our Water Quality Monitoring brochure.

Measuring parameters

- Water level
- Temperature
- Conductivity total disolved solids(TDS)
- salinity
- water density
- Oxygen
- Oxygen saturation Chloride
- pH-value
- Redox (ORP)
- Ammonia
- Nitrate
- Ammonium
- Sodium Calcium
- Fluoride
- Potassium
- Chlorophyll a Cyanobacteria
- Rhodamine WT
- Turbidity
- total suspended solids(TSS)

