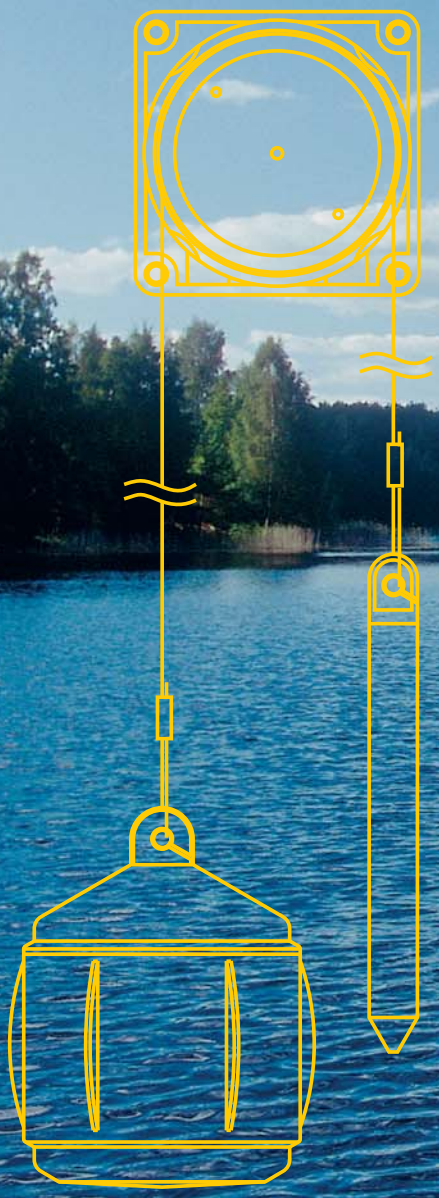
OTT SE 200

Shaft Encoder for continuous measurement of water level



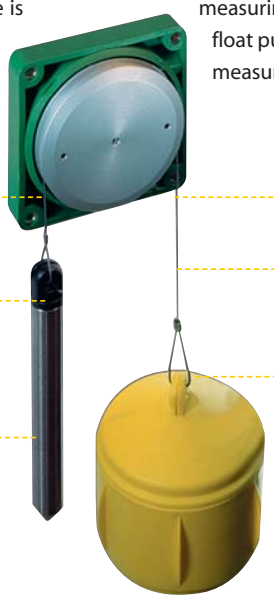
SE 200 – Precise Water Level Measurement

The float-operated Shaft Encoder SE 200 was developed on the basis of the proven OTT Thalimedes for continuous measurement of water level.

A float-cable-counterweight system translates the water level change to the float pulley of the sensor. The rotation caused by this is converted into an electrical signal. A measured value is being calculated via the internal processing and is available via the interfaces SDI-12 and 4…20 mA .

The measuring principle features especially high accuracy and resolution. The well-known drift-free float principle with variable output signal is suitable for connection to external data loggers or SPS systems .

The SE 200 can be programmed via serial SDI-12 interface: measuring range, output range 4…20 mA, output format, float pulley circumference can be optimally adjusted to the measuring task.



Simple system integration
with standard signal 4 … 20 mA

4 … 20 mA
Output range can be allocated to a certain measuring range*

SDI-12
Adjustable* cm/mm or ft output

Optional flooding protection

Variable
Float cable or beaded cable

Absolute shaft encoder
Measuring range –30 m … +30 m

Technical Data

Measuring range	±30 m
Available interfaces	SDI-12 or 4 … 20 mA
Resolution	adjustable:
SDI-12	0.01 or 0.001 m
4 … 20 mA*	0.1 % of measuring range
Accuracy	
SDI-12	±0.003 % of measuring range
4 … 20 mA*	±0.1 % of measuring range

Power supply	9 … 30 V
Temperature range	–20 … +70 °C
Relative humidity	10 … 95 %
Dimensions (L x W x H)	82 mm x 82 mm x 34 mm
Circumference float pulley*	200 mm
Weight	250 g
Housing material	fibre glass reinforced plastics material
Protection type	IP 54

* programmable via SDI-12 commands

OTT – Your partner for:

- Water level measurement in ground and surface water
- Discharge measurement
- Precipitation measurement
- Water quality measurement
- Data management and communication
- HydroService: consulting, training, installation and maintenance

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