Water Level Measurement
OTT Thalimedes – Shaft encoder
for depth and water level measurement

OTT Thalimedes

Float operated shaft encoder with integrated data logger

The OTT Thalimedes shaft encoder is used for the continuous monitoring and storage of ground- and surface water level.

Due to its easy handling and its impressive cost-effective ratio, the OTT Thalimedes is the ideal device for the modernisation of existing measuring locations. The device can easily be combined with conventional mechanical chart recorders, independent of the installation conditions. For groundwater-monitoring we offer an optional installation set for 4" well-pipes and bigger (incl. flood protection).

In-situ data logging of the measured values results in the reduction of the expenditure of both cost and time as well as in elimination of errors that are brought about when data is read out or transferred manually.

Quantitative
Hydrology

Cost-effective and efficient
OTT Thalimedes

Shaft Encoder

In the case of changing water level, the smooth running float pulley is put into motion via the float and its cable. These signals are converted into electronic signals, transmitted to the integrated data logger via the data cable and stored in the data logger in preset time intervals. The stored values can then be transmitted via RS-232 or IrDA interface for further processing.

Features & Benefits

— Proven OTT quality at an unrivalled cost-effective ratio
— LCD-display (time, date, battery-status, measured values)
— For solo-operation or in combination with conventional chart recorders (also different manufacturers)
— RS-232 interface for bi-directional data transfer via serial modem (telephone) or GSM
— Optical IrDA interface (infrared technology) – cable free data transfer, not sensitive to humidity or dust
— 1.5 V power supply for a system operation up to 15 months at hourly measuring-/ storage interval
— Simple battery-change, no tools required

Technical data

Data Logger

Material
Plastic housing (IP 68)

Dimensions L x Ø
244 x 47 mm

Weight
320 g (including battery)

Temperature range
-20 °C ... +70 °C

Interfaces
- RS-232 / SDI-12 interface for direct connection to various data transmission systems, such as serial modem, GSM modem
- IrDA interface (infrared technology) for cable free data transfer

LCD-display
Single-line, 4 ½ digits, character height: 12 mm

Measured value memory
Approx. 30,000 measured values (EEPROM); data storage capacity ≥ 9 months at a storage interval of 1 hour

Sample interval/storage interval
1 min. ... 24 hours (adjustable)

Encoder Unit

Material
Plastic housing (IP 54)

Dimensions L x W x H
82 mm x 82 mm x 34 mm

Weight
140 g

Temperature range
-20 °C ... +70 °C

System
Absolute sensor system. With mounting bore holes and pulley for float cable.

Measuring range
±19.999 m /±199.99 m /±199.99 ft

Resolution
0.001m / 0.01 m / 0.01 ft – scalable

Circumference of float pulley
200 mm; for float cable with a diameter of 1 mm (default); other cable diameters can be graduated

Power Supply
1.5 V (1 x 1.5 V C-type cell)
- system operation up to 15 months at hourly measuring-/storage interval (reference temperature + 20 °C)
- simple battery-change

Option

Installation set for
4", 4,5", 5" or 6" well-pipes,
incl. flood protection

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