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

<table>
<thead>
<tr>
<th>Measuring range</th>
<th>±30 m</th>
<th>Power supply</th>
<th>9 … 30 V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available interfaces</td>
<td>SDI-12 or 4 … 20 mA</td>
<td>Temperature range</td>
<td>–20 ... +70 °C</td>
</tr>
<tr>
<td>Resolution</td>
<td>adjustable:</td>
<td>Relative humidity</td>
<td>10 ... 95 %</td>
</tr>
<tr>
<td>SDI-12</td>
<td>0.01 or 0.001 m</td>
<td>Dimensions (L x W x H)</td>
<td>82 mm x 82 mm x 34 mm</td>
</tr>
<tr>
<td>4 … 20 mA*</td>
<td>0.1 % of measuring range</td>
<td>Circumference float pulley*</td>
<td>200 mm</td>
</tr>
<tr>
<td>Accuracy</td>
<td></td>
<td>Weight</td>
<td>250 g</td>
</tr>
<tr>
<td>SDI-12</td>
<td>±0.003 % of measuring range</td>
<td>Housing material</td>
<td>fibre glass reinforced</td>
</tr>
<tr>
<td>4 … 20 mA*</td>
<td>±0.1 % of measuring range</td>
<td>Protection type</td>
<td>plastics material</td>
</tr>
</tbody>
</table>

* 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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