



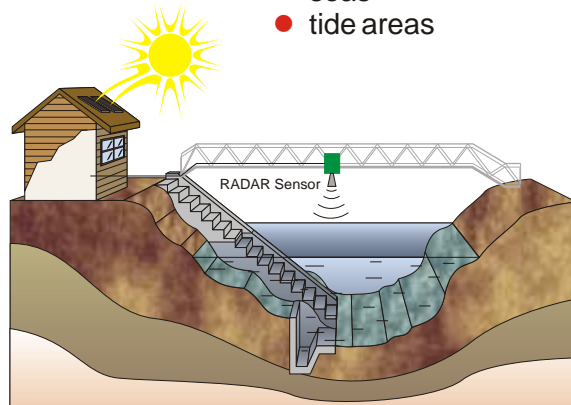
SEBA

HYDROMETRIE

Radar Sensor Type SEBAPULS

 We are certified
ISO 9001
certificate no. 01110505
Quality Is Our Standard

- Operational areas:
- rivers
 - channels
 - dams
 - seas
 - tide areas



- contact free measuring system for high accuracy water level measurements
- mounting at bridges, jibs and foot bridges
- measuring range 0...30m
- individually available as:
 - sensor with 4...20mA / 0.4 - 2V output
 - sensor with integrated SEBA data logger
 - remote measuring station with GSM / telephone -modem
- - stand alone power supply with 12V battery or solar panels

Technical Data

Description:

The SEBA radar sensor type SEBAPULS is a high accurate, contact free measuring instrument for level measurements of surface water.

Advantages:

- insensitive to mud, drift wood, leaves, aggressive media (sewage, brackish water etc.)
- small construction efforts (i.e. mounting at bridge jibs);
- no cross-section contraction of measurement (hydraulic is not disturbed)
- no influence to the measuring accuracy by air humidity (fog) and air temperature fluctuations within the measuring range
- small energy consumption
- short measuring interval
- no dead area
- small mounting distance (approx. 20...30cm)

In the basic construction the measuring system is a pure sensor with analogue output (4...20mA). According to a modular concept the SEBAPULS can be equipped with an additional measuring value storage (i.e. SEBA-Data Logger MDS-Dipper) and a remote transmission (via GSM-network, fix network, etc.).

Measuring principle:

Puls principle (26GHz-technology)
In the so called puls principle a short microwave impulse will be send. Then the sensor rests for a short time. In this time the response signals of the water will be received and transmitted to the integrated evaluation system. The run of the impulses corresponds directly to the distance to the actual water level.

Housing:

Dimension: Ø 116mm, length 392mm
Material: plastic housing, IP66, horn antenna made of stainless steel 1.4435
Weight: approx. 2 kg

Registration of measuring values:

Accuracy: +/- 3mm
Measuring range: 0...30m resp. to indication
Operation temperature: -40°C...130°C
Output: 4...20mA or 0.4 - 2V

Transmission of measuring values to PC

Offline: with SEBA-Data Logger (i.e. MDS-Dipper, MDS-Insider-Shorty)
Online: analogue with 4-20mA, digitally with GSM or telephone modem

Power supply:

- battery 12V (with DCC15, 12V to 24V converter)
- solar panel incl. charger and buffer accumulator
- mains 220V/12V or 24V



SEBA Hydrometrie GmbH
Gewerbestr. 61a • D-87600 Kaufbeuren
Tel.: +49 (0)8341 / 9648-0
Fax: +49 (0)8341 / 9648-48
E-Mail: info@seba.de
Internet: www.seba.de

represented by:

