



Radar Sensor Type SEBAPuls

for contact free measuring of surface water level

Special Features

- Contact free measuring system for high accuracy surface water level measurements
- Mounting at bridges, jibs and footbridges
- Measuring range 0...8 m, 15 m, 35 m, 120 m
- Individually available as:
 - sensor with 4...20mA or 0/4...2V output, SDI-12
 - data logger and mobile modem
- Closed power supply with 12 V battery or solar panel

Radar Sensors



SEBAPuls 8



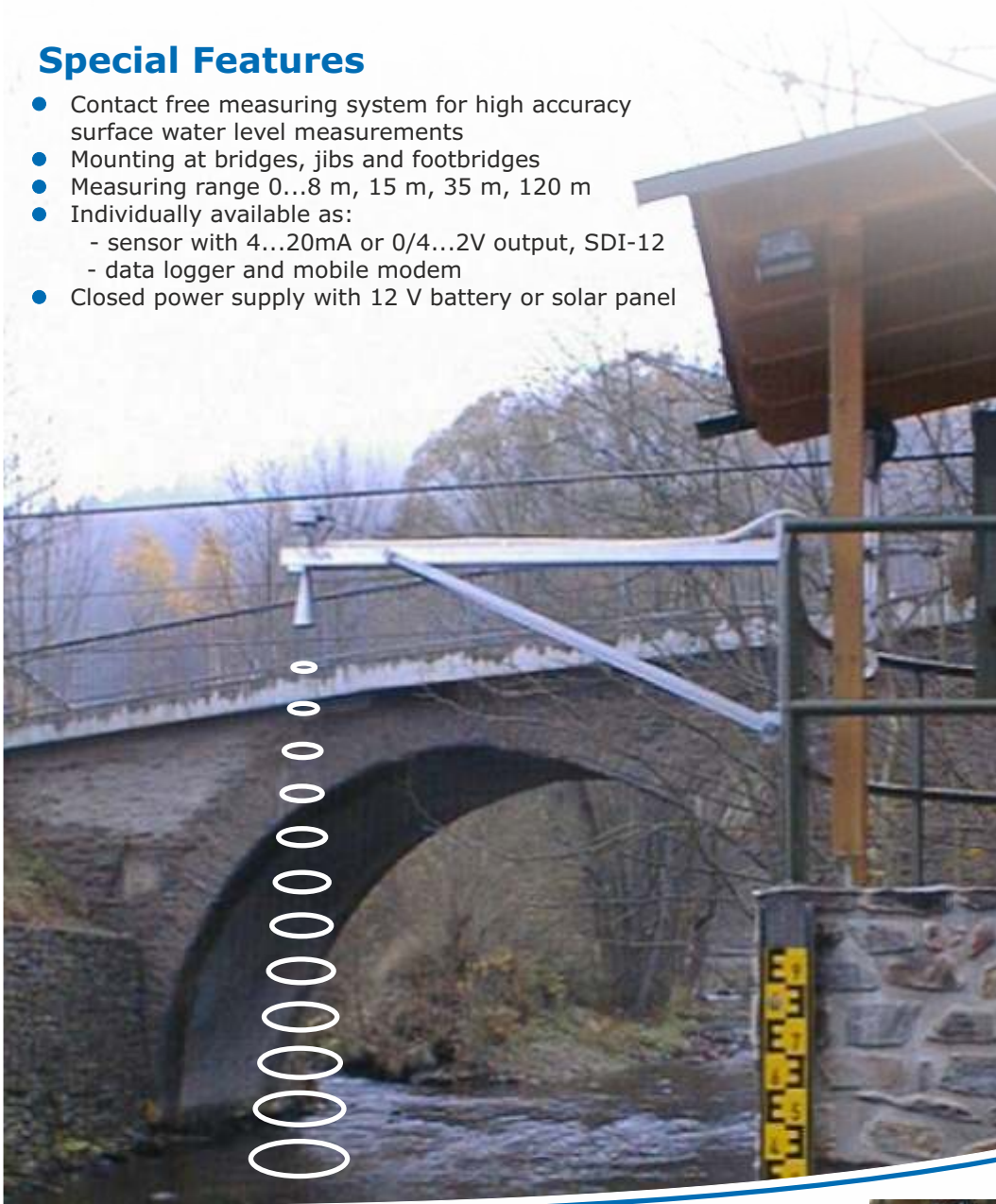
SEBAPuls 15



SEBAPuls 20



SEBAPuls 120



water level monitoring



measurement of surface water



standard fixing
device



measurement in arid zone

Radar sensor types SEBAPuls 8/15/20/120

The **SEBAPuls** radar sensor is designed for operation at rivers, channels, dams, lakes and tidal areas monitoring the surface water level implementing the contactfree radar principle.

Key Benefits

- unaffected by mudding, drifting materials, weedage, aggressive media (sewage, brackish or saline water etc.)
- low cost and time efficient installation (i.e. setup of bridge jibs);
- no disturbance of general hydraulic
- no influence of measurement accuracy by air humidity (fog) or by high air temperature fluctuations
- low power consumption
- short measuring interval
- minimum distance from antenna end: 50 mm
- small mounting distance (approx. 20 to 30 cm)



The basic version of this measuring equipment consists of a sensor with an analogue output (4...20mA). A modular concept of the **SEBAPuls** sensor enables the installation of an additional data storage unit (e.g. SEBA Data logger) and a remote data transmission system via mobile modem, satellite or landline.

Technical data

Measuring principle - Pulse radar

The "pulse radar" measuring method emits a short microwave impulse to the water surface followed by a short time lag of the transmitter. Within this time lag, the radar receives the reflected impulse from the water surface and transmits it to the integrated evaluation system. The run time of the impulse corresponds directly to the distance of the actual surface water level.

Registration of measuring values:

	SEBAPuls 8:	SEBAPuls 15:	SEBAPuls 20:	SEBAPuls 120:
Accuracy:	± 5 mm	± 2mm	± 2mm	± 5mm
Measuring range:	0 - 8 m	0 - 15m	0 - 35m	0 - 120m
Horn antenna:	Synthetic	Synthetic	Synthetic	Synthetic
Housing:	Synthetic	Synthetic	Aluminium	Aluminium
Protection:	IP68	IP68	IP68	IP68
Weight (approx.):	0,7 kg	2 kg	2 kg	2 kg
Dimensions:	Ø 93 mm Length 243mm	Ø 116 mm Length 300mm	Ø 116mm Length 245mm	Ø 116mm Length 245mm

Operation temperature (all types):

-40°C up to 80°C (up to 60°C for SEBAPuls 8)

Output (all types):

4 up to 20mA or 0.4 up to 2V (optional: SDI-12)

Transmission of measuring values to PC

Offline: manual data readout with SEBA Data logger

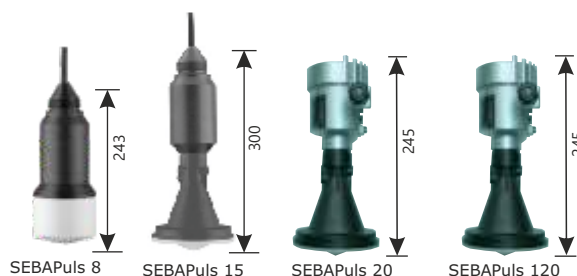
Online: remote data transmission via mobile modem (e.g. FTP-Push or SMS-Push)

Power supply

Battery: 12V or 24V

Solarpanel: incl. charger and buffer accumulator

Mains adapter: 220V_{AC}/12V_{DC}/24V_{DC}



The right is reserved to change or amend the foregoing technical specification without prior notice.



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