



Radar Sensor Type SEBAPuls 8/15/30/35/120

for contact free measuring of surface water level

- Radar sensors for non-contact level measurement in flowing waters, lakes, reservoirs and retention basins
- Measurement ranges and accuracy:
0-8 m (± 5 mm), 0-15 m (± 2 mm), 0-30 m (± 2 mm), 0-35 m (± 2 mm), 0-120 m (± 1 mm)
- Protection class IP 66 / IP 68
- With adjustable mounting bracket (100 mm, 300 mm or customized) for mounting on bridges, outriggers, piers and walkways
- Optionally with RS 485 (SDI-12, Modbus) or 4-20 mA output



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Measuring principle:

The devices emit a continuous radar signal through their planar shaped antennas. The emitted signal is reflected by the medium and received as an echo by the antenna. The frequency difference between the emitted and received signal is proportional to the distance and depends on the water level. The determined water level is converted into a respective output signal and output as measured value.

80 GHz technology:

The 80 GHz technology used enables a unique focusing of the radar beam and a wide dynamic range of the radar sensors. The greater the dynamic range of a radar sensor, the wider its application spectrum and the higher its measurement reliability.

Advantages:

Non-contact radar technology is characterized by extremely high measurement accuracy. The measurement is influenced neither by fluctuating product features nor by changing conditions such as temperature, pressure or dust generation.



Technical data

Type:	SEBAPuls 8:	SEBAPuls 15:	SEBAPuls 30:	SEBAPuls 35:	SEBAPuls 120:
Measuring range:	0 - 8 m	0 - 15 m	0 - 30 m	0 - 35 m	0 - 120 m
Accuracy:	± 5 mm	± 2 mm	± 2 mm	± 2 mm	± 1 mm
Material:	plastic	plastic	plastic	stainless steel/plastic	aluminum/plastic
Protection class:	IP 66 / IP 68	IP 66 / IP 68	IP 66 / IP 68	IP 66 / IP 68	IP 68
Dimensions:	ø 68 mm, Length: 109 mm	ø 68 mm, Length: 109 mm	ø 76 mm, Length: 130 mm	124 mm x 90 mm x 132 mm (LxHxW)	Ø 115 mm, Length: 254 mm
Output:	4...20 mA or SDI-12	4...20 mA or SDI-12 Optional: Modbus	4...20 mA or SDI-12 Optional: Modbus	RS485 (SHWP) Optional: Modbus	4...20 mA or SDI-12 Optional: Modbus
Operating conditions:	-40 ... +60 °C 0-100% RH	-40 ... +80 °C 0-100% RH	-40 ... +80 °C 0-100% RH	-40 ... +70 °C 0-100% RH	-40 °C ... +80 °C 0-100% RH

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