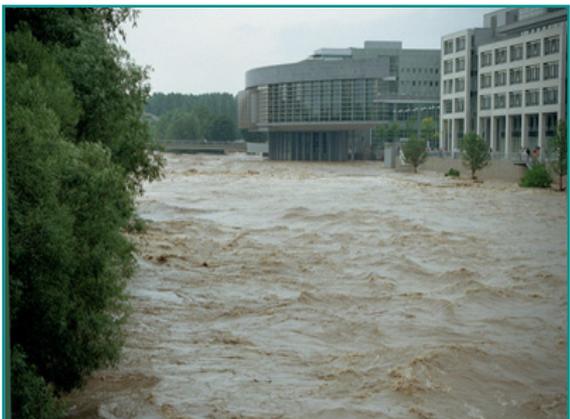


RL-15/35

Contact-free radar sensor to measure the water level



Properties and benefits

- » Maintenance free
- » Measurement range from 15 m / 35 m
- » Near blanking zone 0.5 m
- » High accuracy +/-2 mm
- » Compact design
- » Independent of environmental influences
- » Easy integration in existing systems
- » Vandalism secure as design does not attract attention

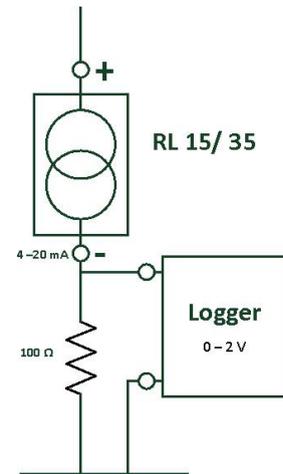
Description

Radar sensor

The RL is a high accuracy measuring device to measure the surface water level without direct contact to the medium.

Measurement principle

The so-called pulse procedure sends a short microwave impulse to the water surface. Afterwards the sensor remains in standby for a short time. Within this time the water reflects the pulses to the integrated evaluation system. The run time of the impulses corresponds directly to the distance to the current surface water level.



Technical Data

General	
Dimensions	153 x 325 x 200 mm 2 brackets for pipe Ø 34 - 48 mm
Operating temperature	-40 ... +80°C
Power supply	9.6 ... 36 VDC
Measurement frequency	26 GHz (K-Band)
Total weight	3 kg
Level measurement	
Measurement range	0 ... 15 m / 0 ... 35 m
Resolution	1 mm
Accuracy	+/- 2 mm
Near blanking zone	0.5 m
Holdback time	60 s (after power on)
Step response time	< 3 s (time after a sudden change in the measured distance to max. 0.5 m)
Output	4 ... 20 mA = 0 ... 15 m / 0 ... 35 m