

 **Radar LR-20**

Freely radiating microwave  
Measuring range 20 m  
Transmission frequency K band  
Accuracy +/-5 mm  
Communication 4-20 mA,  
Hart, PROFIBUS

Extremely short microwave pulses with low transmit power are radiated by the antenna system onto the water to be measured, reflected by the surface of the water and received again by the antenna system.

Radar waves propagate at the speed of light. The time from sending to receiving the signals is proportional to the water level. A special time stretching technique allows reliable and precise measurement of the extremely short times involved.

The latest microprocessor technology and the tried-and-tested ECHOFOX software select the correct fill level echo from a multitude of false reflections and measure it exactly.

By simply specifying the distance from the sensor to the surface of the water, a signal proportional to the fill level can be displayed. Flotsam carried below the measurement point is filtered out by the software.

Due to the design of the antenna, the radar wave is strongly bundled. The necessary clearance to interfering objects can be minimized with this antenna design.



## Radar LR-20

### Technical specifications

Measuring ranges	0-20 m
Interface	4-20 mA, Hart, PROFIBUS
Measuring accuracy	+/- 5 mm
Housing	Aluminum painted
Housing dimensions	Ø 80 mm, height 120 mm,
Configuration	Via display or Hart protocol
Display	LCD optional
Power supply	12-24 V
Temperature range	-40 to +80 °C