

WIRELESS RADAR SERIES

The wireless radar sensors from the WLR series enable the installation of a complete radar system in a minute.

Without the use of any power source or local network (LAN), these radar sensors work everywhere you want. At your customers' site or in remote areas, you are always assured of reliable level measurements!

Delivered with integrated global eSIM and connected to Staal's sensor cloud platform www.staalportal.com.



PRODUCT SPECIFICATIONS

WLR05-2G/001

Product Features

| | |
|------------------|--|
| Sensor type | FMCW radar |
| Applications | water, liquids and solids |
| Power | integrated battery, battery life-time 5 years* |
| Connectivity | wireless, global coverage, 2-way (2G/GPRS) |
| Calibration | automatic, before every measurement |
| Setup & Settings | remotely, over the air (OTA) |

Environment

| | |
|---------------------|-------------------|
| Ambient Temperature | -40°C . . . +80°C |
| Protection Rating | IP 68 |

Measurement Technology

| | |
|--|--|
| Radar Frequency | 60 GHz V-band (57GHz - 64GHz) |
| Measurement Range | 50 - 5000 mm |
| Measurement Accuracy | 2 mm** |
| Measurement and Transmission Intervals | adjustable from every 5min to every 24h |
| Radar beam width | 8° at -3dB (half power beam width) |
| Integrated Sensors | GPS, temperature, RH, 3-axis accelerometer |

Mechanical Features

| | |
|---------------------|---|
| Housing Materials | POM, stainless steel. |
| Weight / Dimensions | 500g / 115mm x 68mm x 65mm |
| Mounting | integrated stainless steel multi-purpose base-plate |

*1 transmission and 24 measurements per day

**accuracy for non moving fluids

