

RangeVue™15/30

80 GHz Radar Water-Level Sensors



Non-Contact Water-Level Monitoring

Effective up to 15 or 30 meters



Overview

The RangeVue™15 and 30 are 80 GHz radar sensors that feature excellent signal-focusing capabilities. Unaffected by temperature fluctuations and virtually all other operational conditions, they reliably produce high-quality data. These sensors are ideal for water-level monitoring in open water applications such as rivers, stream gauge sites (stage), channels, reservoirs, lakes, aqueducts, and irrigation diversions. Other applications include tidal gauge, clearance height under bridges of navigable waters, and early warning and flood monitoring systems that protect the lives of millions within flood-prone regions.

Benefits and Features

- Plug-and-play: Seamlessly integrate the RangeVue 15/30 with the Aspen™10 IoT Edge Device for convenient deployment.
- Low power draw: These radar sensors operate efficiently and can be placed anywhere, enabling versatile deployment for optimal monitoring solutions.
- Resistance to environmental influences: Sensor performance is not affected by temperature, pressure, or vacuum. The RangeVue 15/30 are able to deliver correct, reliable readings under all environmental conditions.
- Dead zone and submersion: These sensors enable reliable measurement right up to the sensor antenna itself.
- Dirt and condensate: Sensors are immune to the effects of dirt and buildup and do not have to be cleaned.
- Reliability and accuracy: These sensors are highly suited for remote applications where sensor performance is essential but regular maintenance intervals or site visits may be impractical or sporadic.

Specifications

■ Measuring Range	15 m (49.21 ft)/30 m (98.43 ft)	■ Deviation/Accuracy	2 mm
■ Antenna	Integrated plastic horn antenna made of PVDF	■ Operating Temperature Range	-40 to 80°C (-40 to +176°F)
■ Threads	1 NP/1.5 NP	■ Input Voltage	8–30 Vdc
■ Radar Frequency	W-band, 80 GHz	■ Signal Output	SDI-12
■ Beam Angle	8°/4°	■ Mechanical Rating	IP66/68, Type 6P

