

Water Level Sensor Radar

Water Level | Hydrology

General Description

HyQuant L is one of the **most versatile and reliable non contact water level radar sensor** that adapts to your local monitoring conditions to provide accurate and stable data, whatever the task.

Suitable for applications in open water bodies, it is available in **two measuring ranges for level monitoring:**

- **HyQuant L20: 0.1 m – 20 m**
- **HyQuant L50: 0.15 m – 50 m**

Its chosen measurement ranges, field-proven reliability, top-tier radar electronics, sturdy housing with a flexible adapter, and configuration software, make HyQuant L an ideal **water level sensing** solution for diverse monitoring scenarios.

Benefit from reduced operating costs: excellent price/performance ratio, stable operation with minimal maintenance, and easy installation.

Applications

- Hydrology and Water Management of surface waters such as rivers, streams, open channels/canals, open flumes, lakes, reservoirs, inland waterways, stilling wells.
- Risk management: early warning and forecasting, urban flooding, rain retention basins
- Agriculture: irrigation, pump stations
- Industrial applications: Hydropower, Mining
- Research

Features

Reliable measurements and system integrity including flooded conditions:

- IP 68 rated, submersible (no protective sleeves needed)
- Robust, weatherproof housing

High resolution and accuracy over the full measuring range:

- Regardless environmental, site and deployment conditions.
- Easy to use and configure filters.
- 60 GHz technology ensures constant and reliable data quality.

Maximum flexibility in deployment:

- Lightweight and streamlined design
- Included **tilt** (vertical axis) and **swivel** (horizontal axis) **mounting bracket** and integrated gyroscope facilitate correct alignment for water level detection.
- Installation on **a variety of support structures**, from bridges to arms, outriggers and other purpose-built structures.
- **Low Power Consumption and unobtrusive design** anti-vandalism for additional flexibility in **remote and urban applications**.

The 8° x 8° beam angle generates a clearly defined spot on the water surface, for proper measurement in wide and narrow water bodies.

Flexible Integration, Communication and Configuration

- Wi-Fi, **SDI-12**, Modbus and PC connection
- Interface adapter or wireless adjustment via WIFI and PC using the KISTERS setup software HyComm
- **Imperial and metric units**



Technical Specifications

Radar Type/Frequency Band	FMCW 60 GHz V-Band Radar level sensing sensor	
Measurement Range	HyQuant L20: 0.1 ... 20 m/0.32 ... 65.61 ft	HyQuant L50: 0.15 ... 50 m/0.49... 164.04 ft
Output rate	1 Hz (1 measurement/second)	
Accuracy	≤2 mm/≤ 0.07 in	
Resolution	1 mm/0.035 inch	
Supply Voltage (Range)	10 ... 30 VDC	
Power consumption at 12V	Typical < 15 mA, peak operation < 80 mA	
Beam Angle	8° by 8° (azimuth by elevation)	
Ingress Protection	IP68	
Communication and Interfaces	SDI-12, Modbus, Wi-Fi	
Operating Temperature Range	-40 ... +80 °C/-40 ... 176 °F	
Humidity range	0 ... 100 % non-condensing RH	
Dimensions and weight	HyQuant sensor with backplate: LxWxH 160 mm x 97 mm x 91 mm, 1.15 kg/6.29 x 3.81 x 3.58 in, 2.53 lb. Packaged Dimensions: LxWxH 300 x 300 x 187 mm, 2.5 kg/11.81 x 11.81 x 7.36 in, 5.51 lb	
Signal Connector	M12 8-Pin	
Materials	Housing: Powder coated aluminum and Radome/Front panel HDPE	
Scope of delivery	HyQuant sensor, Mounting bracket, 10 m/32.80 ft cable, Torx	
Compliance	CE, FCC Class B, UL, RoHS, further information available on our Homepage	

Accessories

iRIS 270 and UnderCover: KISTERS brand data loggers with SDI-12 interface.

Pole-mount bracket: optional pole-mount bracket for pole diameters ranging from 20 mm (3/4") to 60 mm (2").

SDI-12 to USB Adapter

Arm/Outrigger structure dependent on the different site condition.

[Please ask for details.](#)



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 **KISTERS**