Water Level Sensor Radar

Water Level | Hydrology



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 ... 20 m (0.32 ... 65.61ft)
- HyQuant L50:0.15 ... 50 m (0.49 ... 164.04 ft)

Its chosen measurement ranges, field-proven reliability, top-tier radar electronics, sturdy housing with a flexible adapter, and configuration software with adjustable filter settings, 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 no 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, robust and weatherproof housing

High resolution and accuracy over the full measuring range:

- Regardless environmental, site and deployment conditions.
- Easy to use and configure filters for adaptation to local conditions to ensure measurement data quality.

Maximum flexibility in deployment:

- Lightweight and small design allows for a wide range of deployments.
- Included tilt (vertical axis) and swivel (horizontal axis) mounting bracket.
- Integrated gyroscope to help facilitate correct alignment to the water surface for optimum data quality.
- **Easy installation** on a variety of structures such as bridges, arms, outriggers & others.
- Low Power Consumption and unobtrusive design anti-vandalism for additional flexibility in remote and urban applications.
- Flexible configuration with stage point setting for real water level data

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

Easy Integration, Comm & Configuration

- Wi-Fi, SDI-12, Modbus and PC connection
- Interface adapter or wireless adjustment via Wi-Fi and PC using KISTERS HyComm setup software with visual and mouse controls.
- Automatic firmware updates
- 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 in)	
Supply Voltage (Range)	10 30 VDC	
Power consumption at 12V	Typical < 15 mA, Wi-Fi activated < 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 x 97 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 in) to 60 mm (2 in).

SDI-12 to USB Adapter

Arm/Outrigger structure dependent on the different site condition.

Please ask for details.



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