

Water Level Radar OWLR-C23

Creating integrated monitoring solutions

KEY BENEFITS

- High accuracy water level readings
- Flexible solution
- Simple installation
- Low maintenance requirements
- Low power consumption



The OWLR-C23 combines the latest 80GHz radar technology used by the VEGAPULS C23 with **OceanWise's** data processing expertise to enable accurate, non-contact water level measurements which are reliable and informative for all types of oceanographic and hydrological applications.

Its small size and lower power consumption means it can be installed almost anywhere separately, or in conjunction with other environmental sensors and **OceanWise's** cloud based, all-in-one data collection, management and dissemination platform, **Port-Log**.

Integration Options

The OWLR-C23 is best deployed with **OceanWise's** smart telemetry solution, the ip.buffer, although other third-party data loggers or remote telemetry units (RTUs) can be connected as an alternative.

As standard the OWLR-C23 comes integrated with **OceanWise's** data processing and telemetry unit, known as the WiseBox to create a standalone solution. If necessary, the OWLR-C23 radar head can be separated, providing flexible solutions that can be deployed in almost any environment.

Additionally, installing the OWLR-C23 alongside other environmental monitoring sensors such as weather stations will give a full, real-time understanding of the current environment.

For more information on the WiseBox and ip.buffer please talk to one of our Team or download the datasheets from the **OceanWise** website @ www.oceanwise.eu/support/resources/

Accurate, versatile, cost-effective

Why use a radar for measuring water-levels over a pressure sensor?

OceanWise have deployed, tried and tested the OWLR-C23 in many different environments, receiving positive feedback, especially on the data quality and system reliability.

Integrating an OWLR-C23 into Port-Log enables real-time visualisation of water-levels alongside historical data, predictions, and other environmental sensor records such as weather data.

Pressure Sensor	Radar
Installation requires additional infrastructure such as a stilling well	Quick installation
Requires sensor recovery (or divers) for checks and maintenance	Easily accessible for in situ checks and maintenance
Susceptible to biofouling	Non-contact therefore minimal risk of biofouling
Can be subject to instrument drift	Continuous, high accuracy measurements

Feature matrix

Measuring range	30m
Accuracy	±2mm
Beam angle	4°
Measuring frequency	W-band (80GHz) FMCW
Protection rating	IP66/IP68
Operating Voltage	8-30 V DC
Connectivity	Serial (RS-232 etc.) Bluetooth (25m range)
Ambient temperature	-40 to 80° Celsius
Telemetry integration options	OceanWise ip.buffer or third-party data logger / RTU Optional integrated 4G/LTE modem
Deployed solutions include	Rivers and inland waterways, marine environment, wave monitoring and measurements
Approvals	Approved for use in countries where new 26GHz based water level radars have been banned e.g. Australia and New Zealand

Let the marine data experts take care of your site installations and maintenance, contact:

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