WLR/S & WLR/L - Radar Hydrometer

WLR is a radar sensor for a continuous level measurement, suitable for use in liquids and solids. In particular, WLR is a useful device for **water level measurement in streams, rivers, reservoirs, water treatment systems, pumping stations, reservoirs and in many other contexts** also thanks to a high degree of protection.

As all CAEtech products, WLR is an extremely **resistant** product requiring **little and easy maintenance** thanks to its compact design, the absence of parts immersed in water or mechanical moving parts and the use of **self-monitoring and diagnostic systems**.

The device transmits a radar signal through its antenna which is reflected by the liquid and reapplied by the antenna as an echo with a modified frequency. The frequency variation is proportional to the distance and is converted to the level's height of the water. The independence from temperature and humidity variations, typical of radar technology, allows **accurate measurements in all weather conditions**.

TECHNICAL SPECIFICATION

WLR is easy to use and thanks to the built-in Bluetooth module it can be **wireless** calibrated with a PC, but also with smartphones and tablets through a specific app also useful to perform diagnostic operations.

To best meet different application needs, WLR radar hydrometer is available in a short-range version: **WLR/S** with a measuring range up to **15 m** and in a long-range version: **WLR/L** with a measuring range up to **30 m**.

Technical data	WLR/S 	WLR/L 
Measuring range	15 m	30 m
Accuracy	± 2 mm	± 2 mm
Temperature range	-40°F ÷ 176°F (-40°C ÷ +80°C)	-40°F ÷ 176°F (-40°C ÷ +80°C)
Frequency	80 GHZ	80 GHZ
Measurement cycle time	≤ 250 ms	≤ 250 ms
Bounce response time	≤ 3 s	≤ 3 s
Irradiation angle	8°	4°
Output	4-20 mA Modbus SDI-12	4-20 mA Modbus SDI-12
Type of protection	IP66/IP68 (3 bar), Type 6P	IP66/IP68 (3 bar), Type 6P

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