

LPR - LEVEL PROBING RADAR



First and only water level sensor based on **radar** technology **entirely designed and manufactured in Italy**, LPR is available in the version for measuring the **water level in streams, rivers and reservoirs and liquids**.

LPR is characterised by a reduced measuring cone, low power consumption, compact design and absence of parts immersed in water. It has no mechanical moving parts and is therefore extremely robust. LPR is designed for use in a wide range of situations.

Independence from changes in temperature and humidity, typical of radar technology, provides accurate measurements in all weather conditions, with a **measurement accuracy of ± 2 mm up to 35 metres** away. Thanks to its high technology, LPR is able to provide a **reliable and precise measurement in less than 10 seconds, making it the fastest in its category**.

To simplify and reduce the cost of installation, LPR is provided together with a practical **configuration software for PC or tablet**. Thanks to this interface it is possible to identify and **isolate, with the aid of a graph, any obstacles in the measurement area** (pillars, boulders, containment structures, etc.) that are not the actual target to be measured. The same software allows the user to adjust all the operating parameters, including measurement times.

In addition to providing a **4-20 mA standard analogical physical interface**, LPR has an **RS485 port that implements an SDI-12 standard protocol**, with a mechanism that makes it simple to install and easy to interface with any data-logger.



LPR - Specification sheet

Performance

Measurement range	0,5 m - 35 m
Min. resolution	1 mm
Accuracy	± 2 mm
Output	Water or soil level
Internal Diagnostics	Electronic bubble level; internal temperature;
Temperature Range	-30°C, +50°C

Operation

Sampling rate	~ 500 ms
Measuring time (default)	> 500 ms, customizable by user (10 seconds)
Interface	RS485 implementing SDI-12 and 4-20 mA
Power Supply	10÷16 V DC
Warm-up time	~ 4 seconds
Power Consumption	0,8 mA (at 12,5 V, in stand-by /SDI-12 mode)
	6 mA (at 12,5 V, in stand-by /4-20 mA mode)
	25 mA (at 12,5 mA, during warm-up)
	50 mA (at 12,5 V, mean during measurement)

Dimensions and installation

Weight without cable	1,1 Kg sensor + 1,43 Kg support
Size	Length: 34 cm, Diameter: 9 cm
Protection	IP67
Mounting structure	1" ¼ (inch)
Beam width	12°

Included

Configuration SW	EN or IT or ES
Cable	15 meters (customizable; connector available upon request)
User manual	EN or IT or ES
On line assistance	During warranty (EN or IT or ES)

