

LX-80 (SDI-12)

Product code : Model dependent



Main features

- Non-contact measurement
- Very small measuring angle (5°)
- SDI-12
- Easy to install
- Compact and waterproof

LX-80 is a highly accurate radar sensor for water level measurement. Its power consumption is suitable for stand-alone systems. Its compact size makes it easy to install, either on a bridge or on a jib. Its operation makes maintenance almost non-existent. In short, it is an easy-to-use, high-performance and indispensable tool for monitoring waterways.

Depending on the sensor version, the **LX-80** can measure water depths up to 8, 15 or 30 meters. Operating at 80MHz, atmospheric conditions do not affect the measurement.

Automatic

Using the SDI-12 protocol, the P4-100 data logger regularly polls the **LX-80** to collect data and send it to the data receiving server. The sensor can be powered up sequentially to optimize battery life.

Easy to install

Thanks to its compact design, the **LX-80** fits perfectly into different configurations, whether on a bridge or a bracket. Take a look at our mounting solutions for easy installation !

Robust

The **LX-80** is very robust. It is IP68 rated and can withstand an accidental drop into water. Its stainless steel or aluminum casing guarantees a good re-

sistance. The cable can be protected in a metal sheath to connect it directly to the P4-100 central unit.

Accurate

The **LX-80** is equipped with filters to ensure reliable measurement. It eliminates extraneous reflections from the water, vortexes and ripples in the water.

LX-80 is a precise and robust solution!

Technical specifications

General

Resolution	0.5 mm
Accuracy	±2 mm
Output	SDI-12
Measuring angle	5°
Frequency range	W-band 77-81 GHz

Measuring range (Model dependent)

LX-80-8	0 to 8 meters
LX-80-15	0 to 15 meters
LX-80-30	0 to 30 meters

Accessories

- 1 Metal sheath to protect the cable
- 2 Earth stake

Support adapted to the field conditions of installation (bracket, ...)



Electrical specifications

Connectors	M12
Power continuous operation	0.36 W
Power sequential operation (every 6 minutes)	60 mW
Current max	< 470 mA

Environment

IP class	IP68
Materials	Aluminium or stainless steel
Operating temperature	-40 to +85°C
Dimensions	∅ 65 mm x H 78 mm

Generated data*

Water level (m)

*Data generated by the P4-100 datalogger



Did you know that?

The high frequency range used by the LX-80 sensor makes the measurement more accurate than ultrasonic sensors because changes in air temperature do not affect the measurement.



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