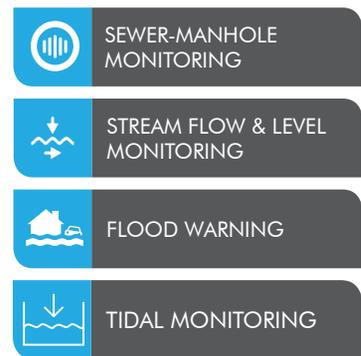


LTX-002

Ultrasonic Level Sensor



The LTX-002 Ultrasonic Level Sensor is a fully integrated level sensor with innovative sensor level signal processing for improved accuracy and stability.

The LTX-002 outdoor sensor is a rugged ultrasonic sensor module. This sensor comes in a compact and robust PVC housing which meets the IP68 water intrusion standard. The LTX sensor is supplied mounted to a sealed flange mounted junction box that allows swift field installation and is supplied with a factory terminated cable and connector to suit Site Sentinel® X1 series loggers.

The LTX-002 is designed to report the distance to the largest acoustic return while ignoring smaller targets. When targets are of a similar amplitude reflections, preference is given to the closest target. This gives users the flexibility to consistently detect larger targets in the presence of clutter and noise.

In addition, the LTX-002 offers virtually noise free distance readings through the use of high-output acoustic power combined with continuously variable gain, real time background automatic calibration, real time waveform signature analysis, and noise rejection algorithms. This holds true even in the presence of many of the various acoustic or electrical noise sources.

The addition of the "FP" option as standard provides our weather resistant sensors with extra protection to IP68 against corrosive chemical environments.

TECHNICAL SPECIFICATIONS

General

Supply Voltage	Regulated 5 Volts DC (supplied by Site Sentinel logger Analog Input Port)
Current Draw	Less than 5mA at 5 Volt DC
Temperature	-20°C to +65°C Celsius
Humidity	0 to 90% relative humidity, non-condensing
Mounting	Approx. 90 mm (h) x 95mm (w) x 60mm (d), flange mounted onto flat surface.
Environmental	IP68

Sensor

Level Sensor	Ultrasonic Level Measurement range of 300mm to 4999mm. +/- 5mm resolution, 1.00% Accuracy. Compensated temperature range is -40°C to +65°C Targets closer than 300mm will report as 300mm.
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IO Interfaces

Analogue Output	0-5 Volt DC Output.
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Approvals

Build	RoHs
Standards	RCM (AUST/NZ), EMC compliance, other export standards on request
Production	Sensor Designed and Made in the USA

Factory Accessories

Ordering Options	LTX-002-4P-0.5M 4-Pin connector, 0.5m cable length
	LTX-002-4P-3M 4-Pin connector, 3.0m cable length
	LTX-002-4P-10M 4-Pin connector, 10.0m cable length
	LTX-002-6P-0.5M 6-Pin connector, 0.5m cable length
	LTX-002-6P-3M 6-Pin connector, 3.0m cable length