waterwatch

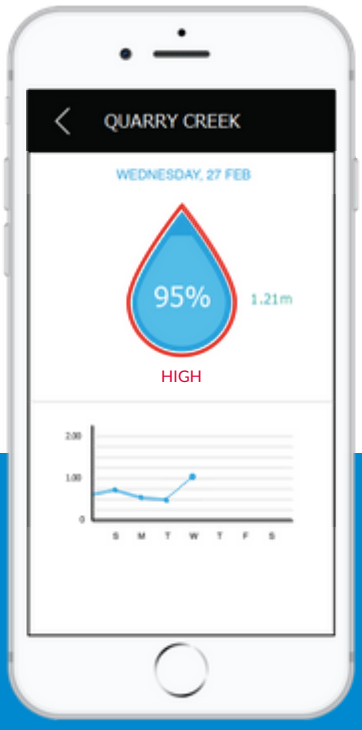
LS1-P

Depth Sensor

- Highly configurable vented pressure sensor for water depth measurement
- Tank level monitoring
- Confined spaces such as groundwater bores or irrigation galleries
- Irrigation race depth and flow monitoring

Internet Connected

- Remote access from your smartphone, tablet, or computer
- Receive notifications for high, low, and rapidly changing levels
- Manage multiple sensors and share access with others



Install it yourself using the handy Waterwatch mobile app

Download on the App Store

GET IT ON Google Play

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LS1-P

Depth Sensor Features

The LS1-P provides accurate water level data diretly to the Waterwatch live cloud platform. This platform provides flexible data export options, API's and integrations with several hydrology and water management systems.

Battery life 3-10 years based on your selected reporting rate

Built-in telemetry with LTE Cat M1 and NB-IOT or Sigfox

IP66 Waterproof and UV resistant

Accuracy 0.5%

Atmospheric pressure compensation

10m measurement range

Stainless steel transducer

15m Cable lenght

http://waterwatch.io

info@waterwatch.io

Waterwatch is a Tussock Innovation brand.
Tussock Innovation 2013 Ltd,
94B Crawford St, Dunedin, 9016, New Zealand.
Tel: +64 3 477 2779

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Technical Specifications

RADIO

Bluetooth Low Energy	2.4/2.483GHz:0dB
Sigfox RC4	920-923MHz:<24dB
LTE Cat M/NB-IoT	700MHz:<24dB

ENVIRONMENT

Protection	IP66
Operation temperature	-40°C to +85°C
Recommended storage temperature	+15°C to +25°C

BATTERY

Life	3-10 years
Type	3.6v Lithium primary
Capacity	7Ah

SENSOR PARAMETERS

Technology	Vented pressure sensor
Measurement range	10m
Accuracy	0.5%
Resolution	1mm
Cable length	15m

PHYSICAL CHARACTERISTICS

Dimensions	174x105x80mm
Weight	750g
Enclosure material	Polycarbonate + PBT
Mounting	M4 screw

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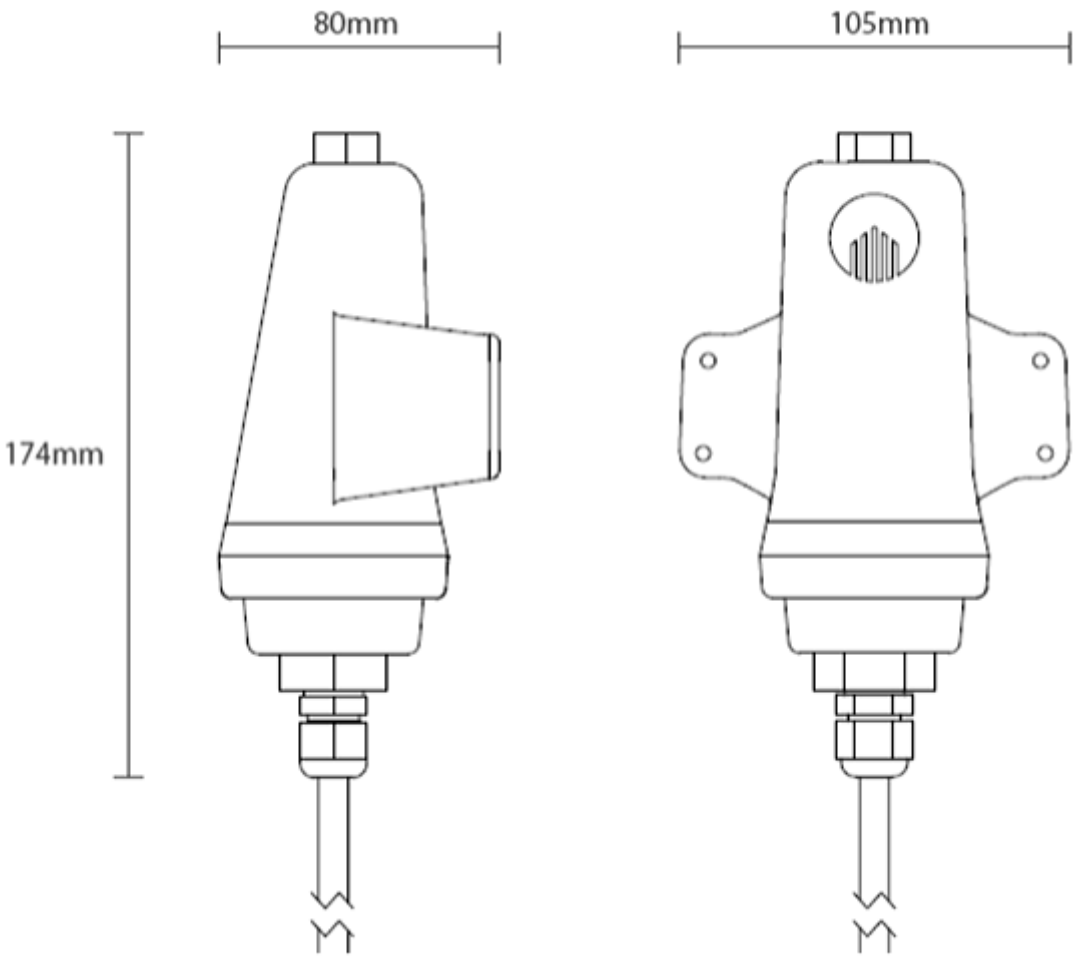

PART NUMBER DESCRIPTOR

LS1-RCZ4-P10L15

Model [LS1-P] — depth sensor

Radio option [RCZ4] — Sigfox region 4

Sensor technology and range — Pressure 10m, Cable 15m

AVAILABLE PART VARIANTS

LS1-RCZ4-P10L15	Sigfox region 4
LS1-CEL-P10L15	LTE M/NB-IoT band 28

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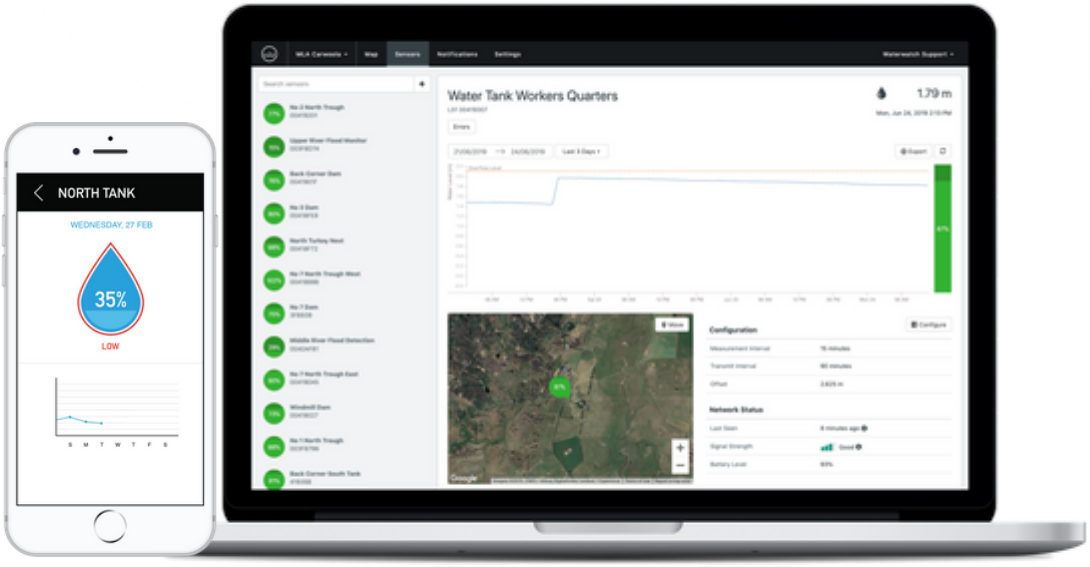
ABOUT WATERWATCH

Waterwatch is a Tussock Innovation brand dedicated to providing tools for better management of precious water resources, and helping society adapt to a changing environment. The Waterwatch system generates insights for scientists, farmers and municipalities via a blend of elegant, functional, and robust hardware and software.

Launched in January 2019 the LS1-P depth sensor is a high accuracy addition to the Waterwatch portfolio. Designed for long term field deployment, the LS1-P tracks liquid level changes in confined spaces such as irrigation galleries and groundwater bores via a cabled stainless steel pressure transducer. The LS1-P is easy to install, accurate and compact making it the perfect solution for replacing the obsolete monitoring equipment. User control of the LS1-P is provided via native iOS, Android and Web apps. Sensor data is communicated directly to the web, and used to provide time critical alerts and level storage information. The Waterwatch system enables third party vendors to provide value added insights like delivery requests and vehicle route optimisation via secure third party API and Webhook access.