

Tank Level Monitoring Made Easy

Water-Insight's Tank Level Monitor (TLM) allows you to monitor and control your water tank levels from anywhere. Our web-based dashboard technology provides you with tank level information and alerts for both critical water levels or significant rates of change.



Gateway

Sensor gateway complete with a power adapter and antenna



Tank Unit

Fully integrated solar panel and a 6000 mAh lithium-ion battery



Subscription

Your first year subscription to our cloud-based dashboard included

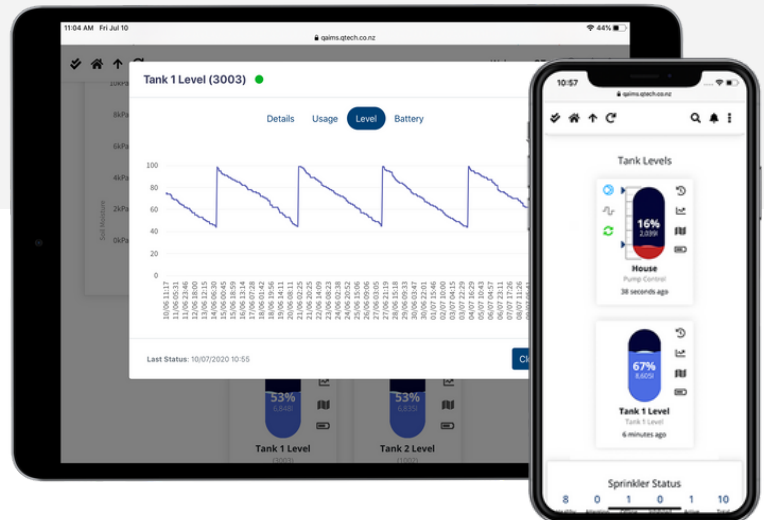


Sensor

Highly accurate 3 meter pressure sensor

Live updates on water level and usage data are sent directly from tanks situated around your farm to your device. This feature is combined with Water-Insight's Irrigation Management System (IMS). Which allows you to control and monitor fixed set irrigation, tank levels, soil moisture, flow meters and rain gauges all from one app.

Using our IMS applications from any smart device, you can ensure your water levels are controlled from practically anywhere.



Key Features

- Low Power, ~6mA in standby
- Fits 1 pressure sensor probe
- Replaceable lithium-ion battery
- Surface mounted on tank or optional pole mount
- Typical use up to 3 metres depth with alternate probes available for greater depths.
- 900 MHz (LoRa modulation) for approximately 5000m operation to internet gateway equipment
- Fully integrated, all in one, stainless steel brackets and waterproof enclosure with solar power charging and battery operation.
- Web application for mobile or desktop app, interface to IMS
- IMS provides graphing of levels up to one year with alert notifications and alarms thresholds for critical levels via SMS messaging or instant messaging.

Water-Insight's Tank Level Monitor (TLM) provides water tank level monitoring using an immersed pressure sensor. The TLM has an environmentally protected closure complete with battery power source, solar panel charging and stainless brackets. Tank Level readings are transmitted via radio to a receiver and internet gateway device.

Tank Level Monitor

Details and Overview



Item	Parameter	Specification
General		
	Dimensions	Approx. 200 x 200 x 250 mm Mounting holes 6 x M6
	Weight	1800 grams
	Temperature	Operating: 0–65°C Storage: 0–65°C
	Humidity	0–90% non-condensing
	Ingress	IP66
	Protection Power	Input voltage: Internal 4.1V Li-Po battery, 6000 mAh rating (rechargeable) Charging current: 400mA max Standby current: ~6mA Peak current: ~220mA for 1s (at default 15min sampling rate)
	Device Management	Via USB
Input/Output		
	Transducer	Holykell HPT604 Pressure Level Transducer 4 wire 0.5-4.5V output Supply voltage 5.0V (+/- 5%) 0-3m range (standard issue, other ranges available on request) Accuracy 1% FS.
	LED	STAT – operational status power (internal)
	Indicators	Operating mode switch (internal)
Radio		
	Pushbutton	
	Regulatory	900 MHz ISM band, AS/NZS
	Antenna	4268 Detachable SMA
	Output Power	20 dBm
	Receiver Sensitivity	-134 dBm
	Modulation	LoRa
Communications		
	USB	USB 2.00, Type Mini-B connector interface (configuration and firmware upgrades)
	Configuration	QTech Workbench (via USB)

Visit our website for more information:

www.waterinsight.co.nz