

# Tank Level Monitor Data Sheet



The Tank Level Monitor (TLM) provides water depth metering using a pressure sensor immersed in the water. The product is supplied in an environmentally protected enclosure complete with battery power source and solar panel battery charging. Level readings are transmitted via radio to a receiver and internet gateway device. The information is displayed on a web-based interface (IMS) and is accessible on smartphones, tablets or desktop devices.

**Features:**

- Low power, ~6mA in standby
- Fits 1 pressure sensor probe
- Replaceable lithium-ion battery
- Typical use up to 3m depth. Can be supplied with alternate probes for greater depths.
- 900 MHz (LoRa modulation) capable of more than 3000m line of sight operation to sensor gateway
- Fully integrated, all in one, stainless steel brackets and waterproof enclosure with solar power charging and battery operation.
- Surface mounted on tank or optional pole mount
- Web application for mobile or desktop access, interfaces 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.



Item	Parameter	Specification
<b>General</b>		
	Dimensions	Approx. 200x 200x 250 mm Mounting holes 6x M6
	Weight	1800gm
	Temperature	Operating: 0-65 degrees C Storage 0-65 degrees C
	Humidity	0-90% condensing
	Ingress Protection	IP66
	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
<b>Input/Output</b>		
	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 Indicators	STAT – operational status and power
	Pushbutton	Operating mode switch (internal)
<b>Radio</b>		
	Regulatory	ISM band, AS/NZS 4268
	Antenna	Detachable SMA
	Operating Frequency	915 – 928 MHz, factory configured
	Output Power	20 dBm
	Receiver Sensitivity	-134 dBm
	Modulation	LoRa
<b>Communications</b>		
	USB	USB 2.00, Type Mini-B connector interface (configuration and firmware upgrades)
	Configuration	QTech Workbench (via USB)

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