

## Wireless Tunnel™ Tank Level Sensor (WTS-TDPS-xx)

### Monitor fuel level and liquid storage tanks

Monitor tanks of depths up to 20 meters. Often tanks are located in outdoor or difficult to cable areas. The WTS-TDPS is battery powered, or can be powered from a 5VDC or 12VDC source. Track fuel usage, graph the tank level, receive alerts when tank levels are critical. No more constraints on maximum cable lengths from the base unit. Easy installation and pairing with AKCP Wireless Tunnel™ gateway.

### Sensor Features

- 4xAAA Battery powered, with 10 year life\*
- Tank mounting kit with cable gland
- IP66 rated enclosure
- Monitor all kinds of liquids and fuels.



### WTS-TDPS-xx Technical Specification

<b>Status Indication</b>	LED indication for - Mode - Status - RSSI
<b>Components</b>	Manufactured using highly integrated, low power surface mount technology to ensure long term reliability.
<b>Operating Environment</b>	Temperature : Min. -35° C – Max.80° C Humidity: Min. 20% – Max. 80% (Non-Condensing)
<b>LoRa (R) Radio Regional plans</b>	- EU868 : 863~868Mhz, Max TX Power +14dBm, Duty Cycle 1% - US915: 903~915Mhz, Max TX Power +17dBm - AS923 : 920~925Mhz, Max TX Power +14dBm, Duty Cycle 1% - KR920 (Korea) : 922~923Mhz, Max TX Power +14dBm, Duty Cycle 1% - IL917 (Israel) : 915~917Mhz , Max TX Power +14dBm, Duty Cycle 1%
<b>Certification</b>	FCC Part15C, CE EN300220-2
<b>Interface</b>	Micro-USB port for powering, adding and upgrading to the Gateway base unit
<b>Dimension</b>	76x77x120mm
<b>Mounting</b>	Wall hanging, DIN rail, Pipe Clamp
<b>Power source</b>	4xAA batteries or via micro-USB port Optional : external 12V supply (custom order)
<b>Power Consumption</b>	Average 0.1 Watt, 10uA in Idle, Up to 10 years of battery life
<b>Tank size up to 20 meters</b>	Sensor is calibrated for specific tank size, please select for either max 5, 10, 15 or 20 meter tank when ordering. Accurate measurement for non-linear size tank for static liquid level, via linearization
<b>MEASUREMENTS</b>	
<b>Measurement Method</b>	Hydrolic Pressure in mH2O (Fluid column pressure)
<b>Tank Depth (Max)</b>	0–20 m (65 ft) for Water at 4C
<b>Accuracy Distance</b>	0–2000 cm (65 ft) with 1% accuracy for water
<b>Full Scale Accuracy</b>	±1%FS (Max)
<b>Sensors</b>	- Liquid Height - Tank volume
<b>Chemical Resistance</b>	Petrol, Diesel, Water
<b>Operating Temperature Range</b>	-20°C to 80°C
<b>Protection Grade</b>	IP68 (pressure sensor part)
<b>Probe Mounting</b>	Suspended inside the tank by leader cable Comes fully assembled, only needs installation
<b>Sensor Part Cable</b>	Leader cable from the sensor probe to the WTS box is 5/10/15/20 meters respectively based on depth type ordered.
<b>Gateway sensor count</b>	5 (3 + 2)
<b>Notes</b>	Works with certain types of fuel, fresh water

**WTS-TDPS-xx - Technical Drawing**

