



Smart Monitoring Product Guide



Award winning
monitoring solutions
for liquid energy

Products that will keep your business growing

Specialists in Intelligent Tank Monitoring

The Kingspan group is a dynamic, diverse business, with a global reach. Our comprehensive portfolio of energy storage solutions will meet all your business's Oil, AdBlue®, diesel, and agri storage needs.

Operating in over 100 countries, we deliver pioneering technology, design and manufacturing, backed by a worldwide distribution network and local experienced sales and customer service team.



As a global leader, we understand your requirements and are driven to design and deliver innovations that exceed your expectations, again and again.

Kingspan brings you the confidence of quality and support over the lifetime of your product and beyond.

Local and remote monitoring solutions optimising liquid assets.



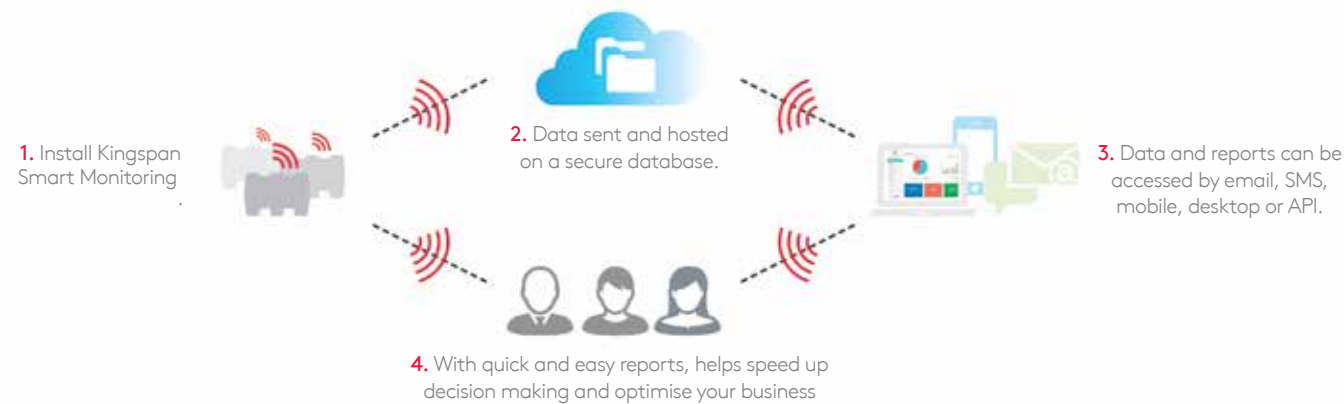
Contents

Connect Sensor	04
Watchman Anywhere Pro	06
UniWatchman ^{RX}	07
Watchman Sonic Alarm	08
Watchman Sonic	09
TMS300 CS Multi-tank	10
Multi-Tank Pro	11
Kingspan Access	12
Watchman LT	14

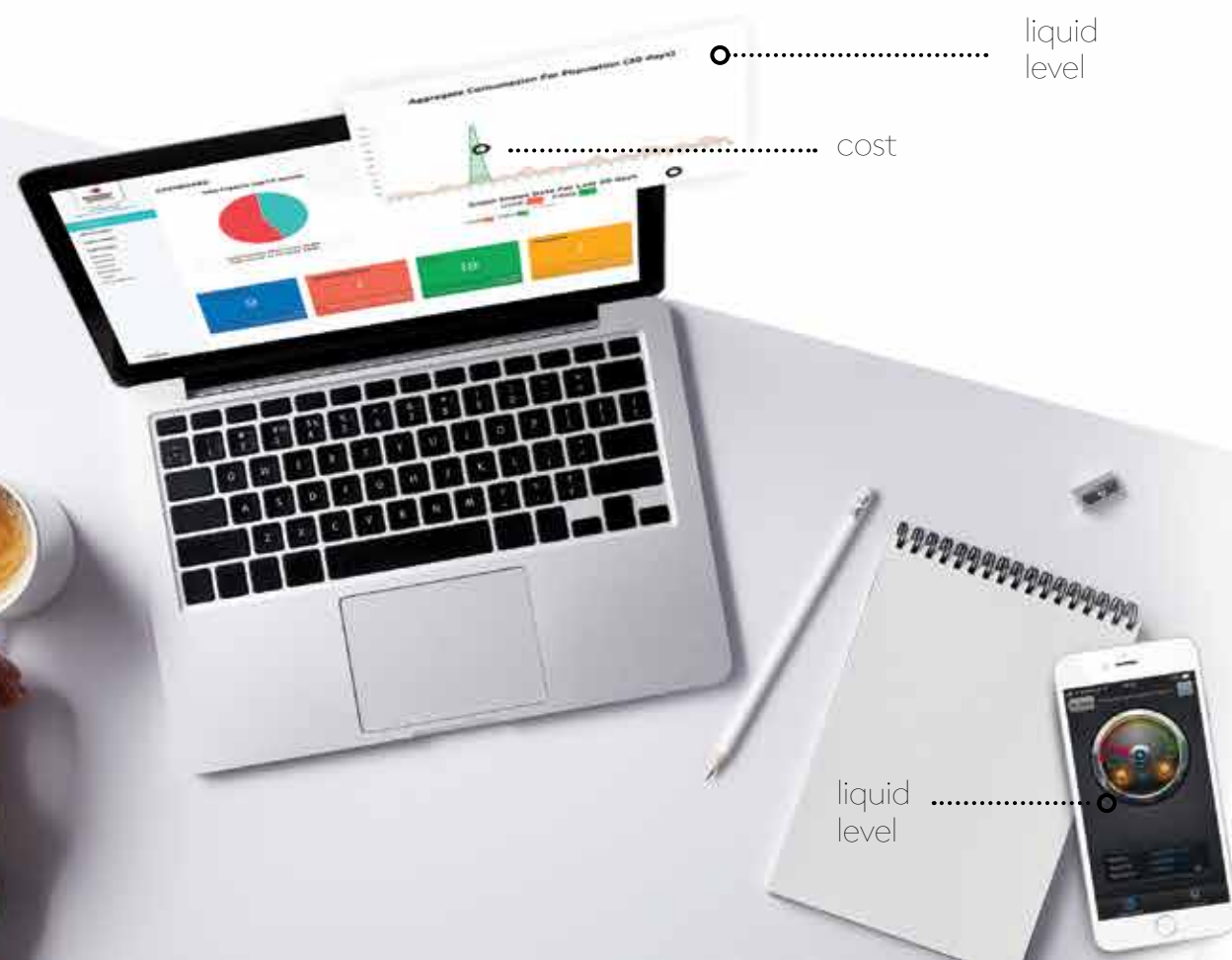


The world's most cost effective remote telemetry reporting platform

How Connect Sensor Works:



Scheduled, customised and exportable reports can be used to measure:



We have provided technical, sales and design expertise in telemetry solutions for over 20 years. Our solutions can help you monitor the following areas locally and remotely.

Fuel, Lubricants, Liquids



Materials - Bulk storage



Water



With the rising cost of fuel and inventory, keeping a close eye on these assets is now critical. Smart Monitoring can monitor:

- Home Heating Oil
- Gas Oil & Diesel
- Lubricant Oil
- Liquids / Additives
- AdBlue®
- Waste Oil
- Water
- Liquid Fertilizer
- Chemicals

We can measure almost anything including bulk materials. Using Kingspan Smart Monitoring telemetry can ensure your stocks never run dry. Kingspan Smart Monitoring has experience in providing solutions for the following industries:

- Agriculture
- Industrial
- Food

As well as the following products:

- Additives
- Cement
- Chemicals

Water is a precious resource. Kingspan Water & Energy are experts in sustainable water management and can fit smart monitoring systems to measure water usage and wastewater levels to prevent pollution incidents. Kingspan Smart Monitoring can monitor:

- Cesspits & Sludge tank
- Grease traps
- Separators
- Treatment plants
- Rainwater
- Pump Stations
- Wastewater





Remote tank monitoring system for business & industry

Watchman Anywhere Pro

Watchman Anywhere Pro can continually monitor every tank in your business. From diesel to waste oil and a vast range of common liquids, you'll have full transparency about the performance of your tank population. Watchman Anywhere Pro

provides in-depth data that you can view anywhere, anytime. The one piece monitoring unit is easily installed and has a battery life up to 5 years.



Universal receiver for fuel, chemicals, solids and waste oil when you require more than just level measurement.



Example Applications:



CHARACTERISTIC	TRANSMITTER
Operating temperature	0°C to 40°C
Environmental Protection	Indoor use only
Radio frequency	433MHz
Gauge Type	UltraSonic/Pressure Gauge/ Watchman LT, any 4-20mA sensors
Warranty	1 Year



The revolutionary electronic measuring gauge which will set off an alarm at the receiver in the house when there is a dramatic drop in oil levels.

Watchman Sonic Alarm



Suitable for steel or plastic tanks

Option of audible setting sending out a buzzing tone when oil levels run out

12 months replacement guarantee

Quick and easy to install

Low power consumption

One model fits all

Measures tanks up to 3 metres in height

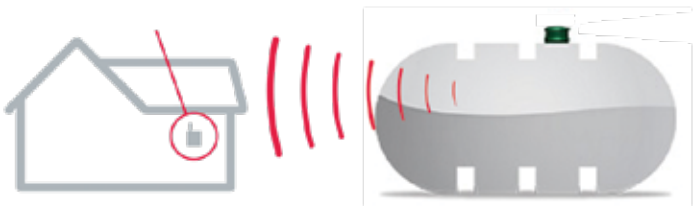
Audible alarm

200 metre transmitter to receiver range

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10°C to 50°C
Environmental Protection	RX Indoor use only; TX - IP67
Radio frequency	433MHz
Gauge Type	Ultrasonic
Ultrasonic range	0,5-3m
Measurement Accuracy	+/-2cm
Warranty	1 Year



Monitor your liquid levels from the comfort of your own home, giving you peace of mind that you won't run out.



Watchman Sonic

12 months replacement guarantee

Measures tanks up to 3 metres in height

Audio alarm options available for when the oil level runs out

Quick and easy to install

Low power consumption

One model fits all - suitable for steel or plastic tanks

200 metre transmitter to receiver range

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10°C to 50°C
Environmental Protection	RX Indoor use only; TX - IP67
Radio frequency	433MHz
Gauge Type	Ultrasonic
Ultrasonic range	0,5-3m
Measurement Accuracy	+/-2cm
Warranty	1 Year

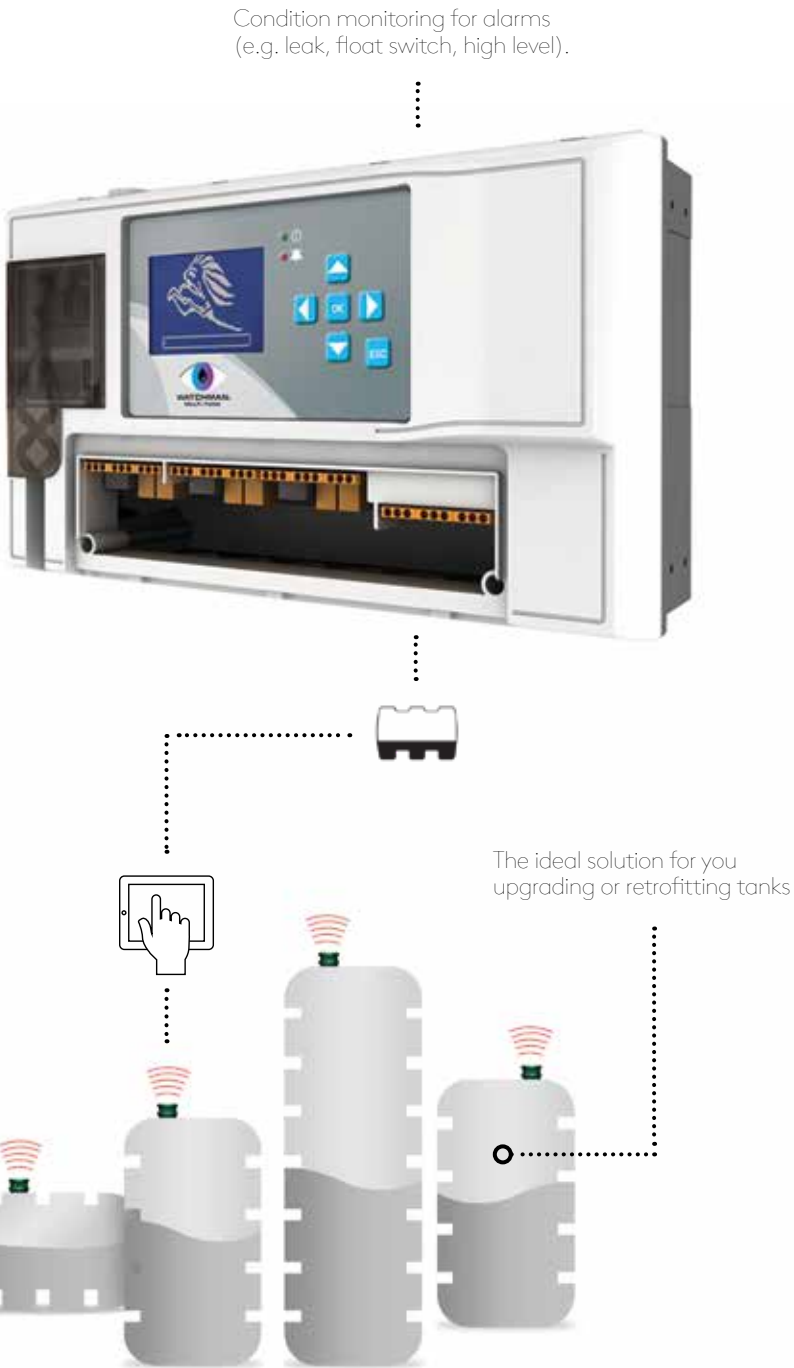


Your bespoke designed solution to monitor up to 18 fuel tanks.

TMS300 CS Multi-tank

The TMS300 CS Multi-tank has been designed to complement the Watchman Anywhere Pro tank monitoring solution. The device can act as both local and remote monitor giving tank information on site, in a local office via a LAN and remotely using the app and website. The device can monitor up to 18 tanks both wirelessly and using fixed wired sensors.

Scheduled and alert driven information is sent to the Kingspan Smart Monitoring data hosted platform, Connect Sensor. Connect Sensor is capable of hosting real time information from the TMS300 CS Multi-tank as well as the Watchman Anywhere Pro. Tank levels from each TMS300 CS can then be shown on the Connect Sensor platform as well as the Watchman Anywhere Pro APP should be app available on Android and iOS.

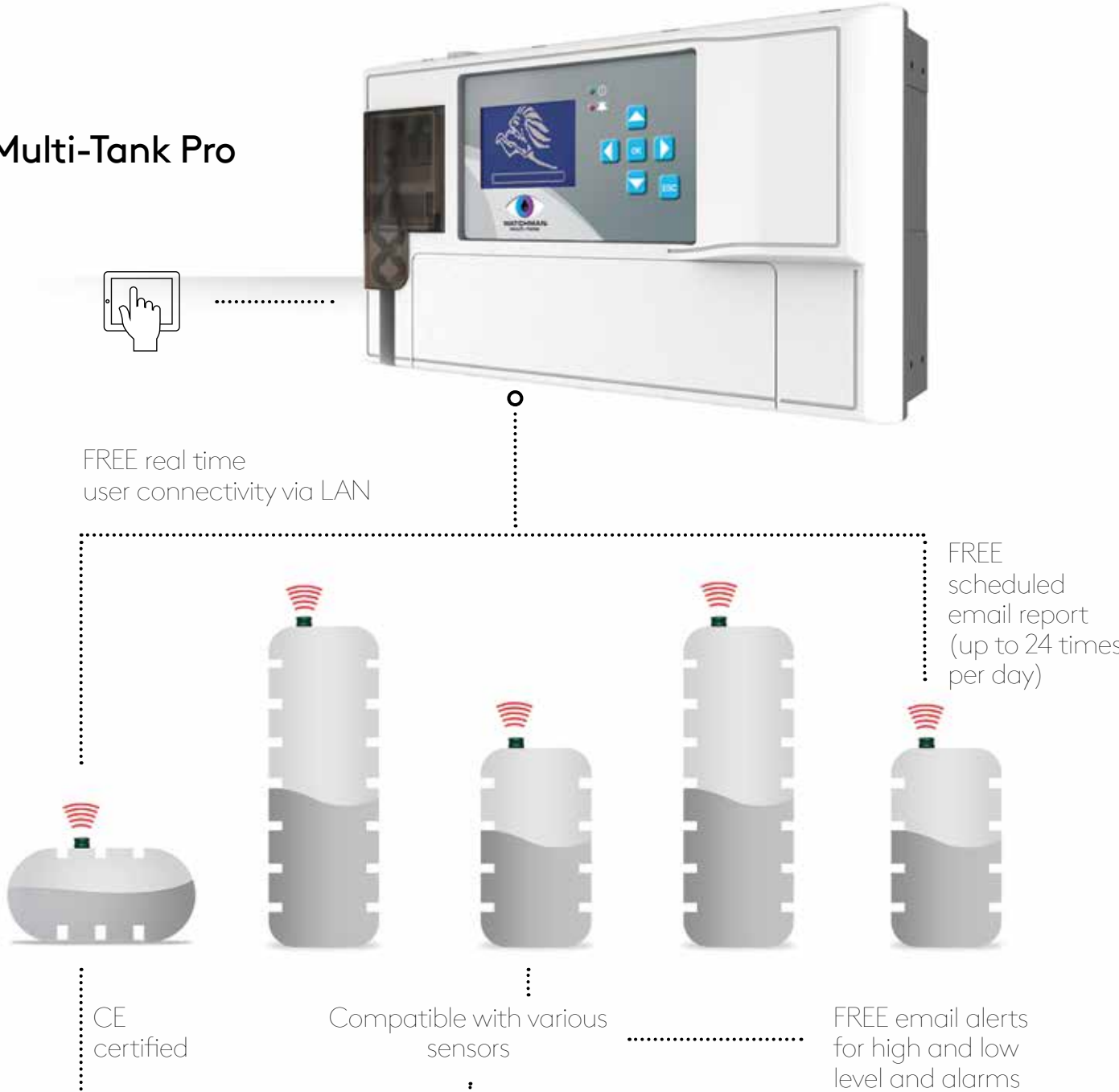


CHARACTERISTIC	TRANSMITTER
Operating temperature	-10°C to 40°C
Environmental Protection	Indoor use only
Radio frequency	GSM2G/3G; 433MHz(option)
Gauge Type	UltraSonic/Pressure Gauge/ Watchman LT & any 4-20mA sensors
Warranty	1 Year



Local monitoring for up to 18 tanks

Multi-Tank Pro



Alerts and alarm locally and remotely

Local alarms + BMS connectivity

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10°C to 40C
Environmental Protection	Indoor use only
Radio frequency	433MHz
Gauge Type	UltraSonic/Pressure Gauge/ Watchman LT & any 4-20mA sensors
Warranty	1 Year

Intelligent fluid and fleet management solution.

Kingspan Access

The Kingspan Access system supports comprehensive fuel management activities supporting business critical decisions. By metering intercompany fuel stations or tanks distributing fuel to fuel to different locations, the system provides complete control over

distributed fuel. The use of proprietary flow meters allows you to install the system on any tank or station or tank used for fuel distribution.



available with
Kingspan Connect platform



Safe - identification with unique RFID cards/fobs or pin.

Real time communication between terminals and software.

Connect anywhere anytime - Wi-Fi, Mobile, LAN.

Accurate - level and temperature monitoring.

Unlimited - operations, users and vehicles.

Current status:
Level
Temperature
Total usage
Capacity of tank

Current location of the tank

Active graph - level and temperature

Recent activities

Save money - live reports, live level and control.

Personalised reports

Alerts list

Safe - active GPS tracking.

Easy to use - remote control, supervision and push notifications.

Database

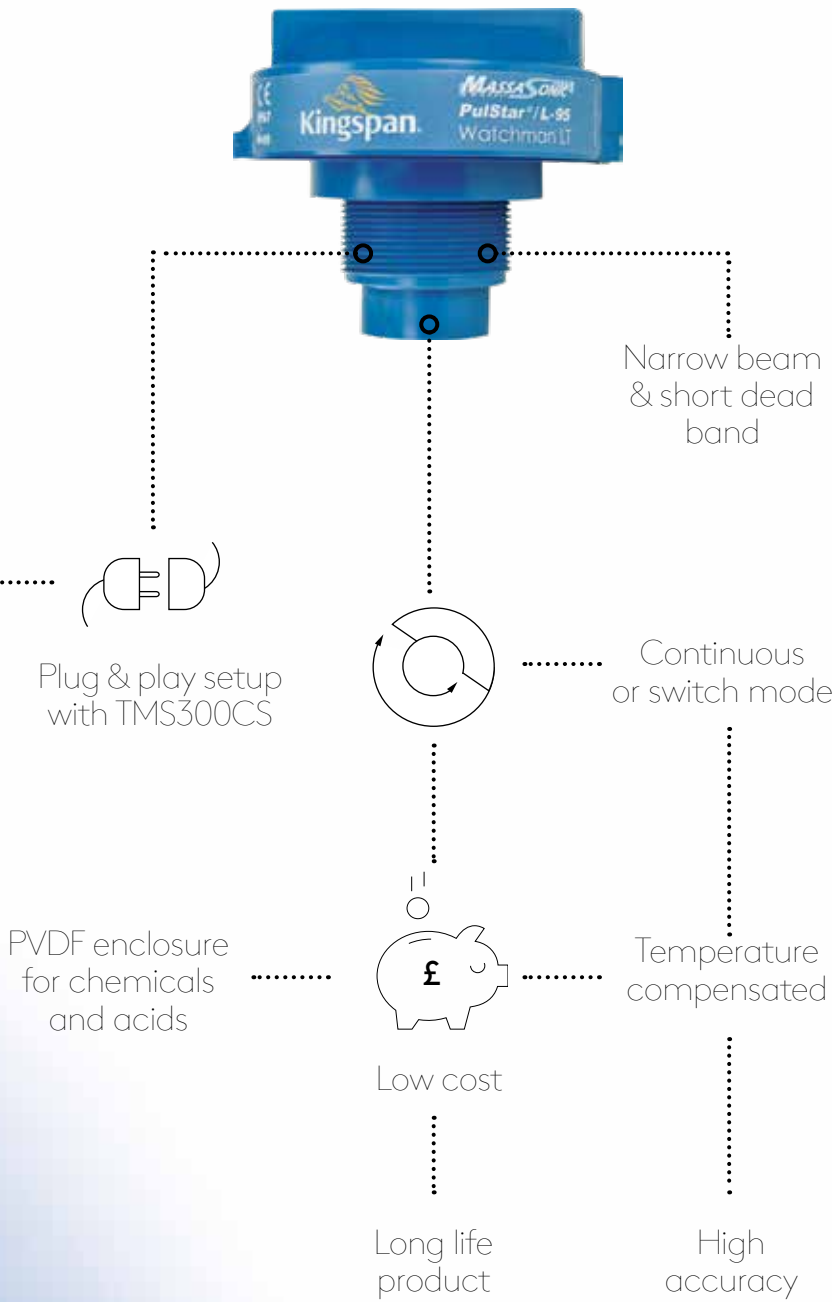
Tank User Vehicle RFID cards



New commercial gauge for large tank monitoring

Watchman LT

The Kingspan Watchman LT sensor is a ruggedly designed ultrasonic transmitter that provides reliable continuous level or distance measurement of fluids, pastes, or solid bulk materials for application ranges from 200 mm to 6.5 meters. Incorporating state-of-the-art ultrasonic technology and processing algorithms, all Watchman LT models provide precision noncontact measurement for applications such as factory automation, process control or tank level monitoring.



CHARACTERISTIC	TRANSMITTER
Operating temperature	-40°C to 85°C
Environmental Protection	IP67
Gauge Type	4-20ma Ultrasonic
Measurement Accuracy	± 0.2% of Target Range
Warranty	1 Year
Ultrasonic Range	6,5m

Visit kingspanenergymangement.com to learn more about our products in over 85 countries. For local information on the Smart Monitoring Range please visit:

UK
E: sensor@kingspan.com

Ireland
E: sensor@kingspan.com

Netherlands
E: tank@kingspan.nl

Sweden
E: tank@kingspan.se

Poland
E: zbiorniki@kingspan.pl

France
E: cuve@kingspan.fr

Belgium
E: info@kingspan-env.be

Germany
E: tank@kingspan.de

Czech Republic
E: nadrze@kingspan.cz

Finland
E: tankinfo@kingspan.com

Global Head Office
180 Gilford Road
Portadown
Co. Armagh
BT63 5LF Wielka Brytania
Tel.: +44 (0) 28 3836 4444

European Office
ul. Topolowa 5
62-090 Rokietnica
Polska
Tel: +48 61 814 44 00

We take every precaution to ensure that information in this document is accurate at the point of publication but with continuous product development, the details given in this document are subject to alteration without notice.

C19.7209

