Kingspan
Intelligence
Inside

Smart Monitoring
Product Guide
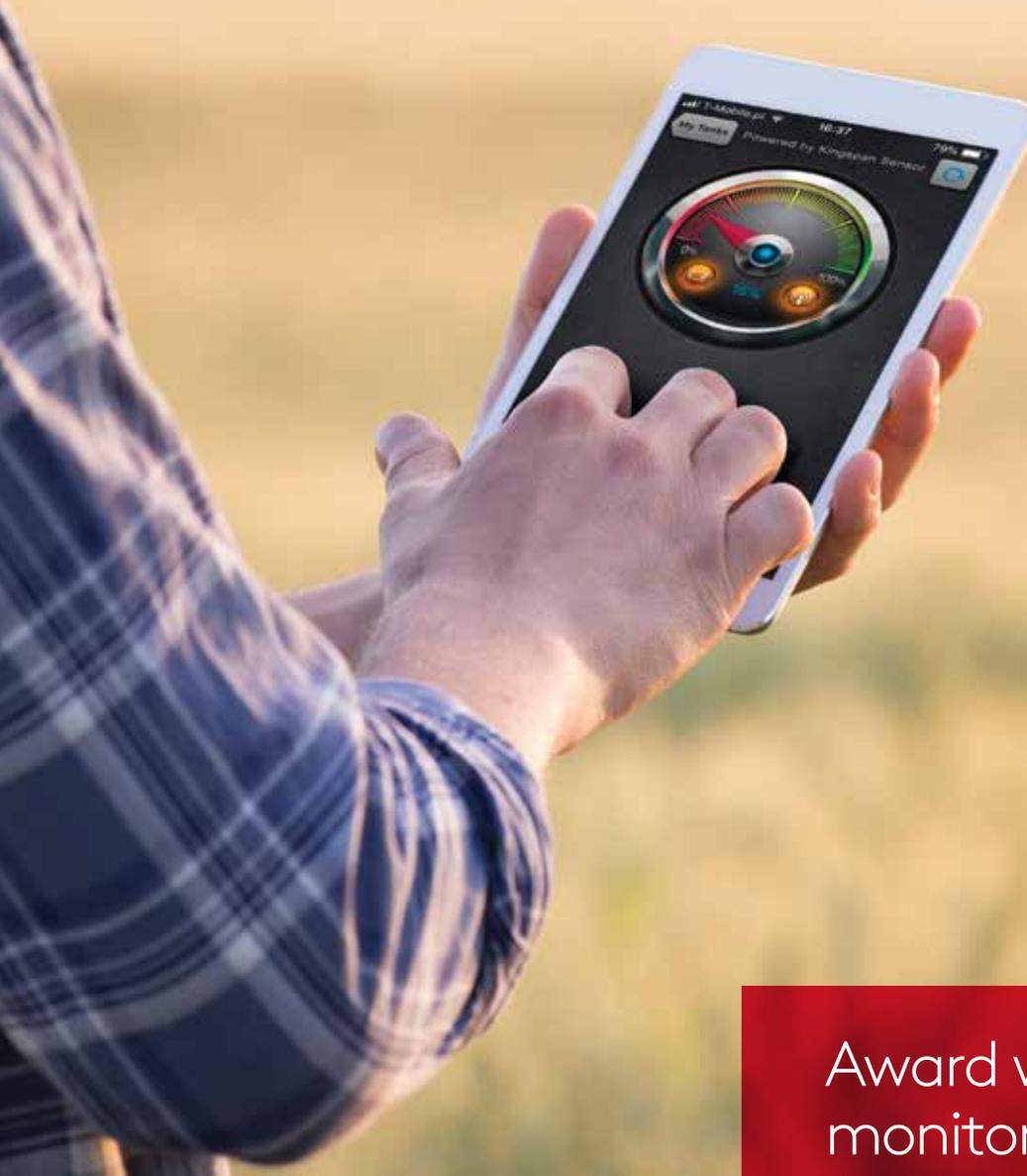
Award winning
monitoring solutions
for liquid energy

kingspanenergymanagement.com

Kingspan®

Kingspan
Intelligence
Inside

Products that will keep your business growing

Local and remote monitoring solutions optimising liquid assets.

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.

UK & Ireland

Europe

USA

Asia

Pacific Rim

South America

Africa

Australasia

Contents

CONNECT SENSOR®
REMOTE TELEMETRY & CONDITION MONITORING

The world's most cost effective remote telemetry reporting platform

How Connect Sensor Works:

1. Install Kingspan Smart Monitoring telemetry.

2. Data sent and Hosted on a secure database.

3. Data and reports can be accessed by email, SMS, mobile, desktop or API.

4. With quick and easy reports, helps speed up decision making and optimise your business
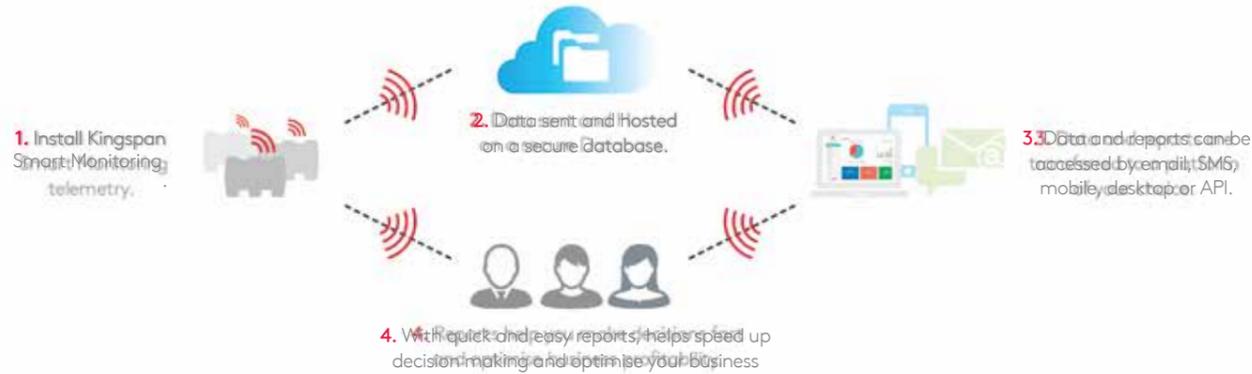
Scheduled, customised and exportable reports can be used to measure:

liquid level

cost

liquid level

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

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

Materials - Bulk storage

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

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

App Store

Google play

WATCHMAN®
TANK LEVEL MONITORING

WATCHMAN®
TANK LEVEL MONITORING

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.

Liquids Compatibility Examples

› Home Heating Oil
› Gas Oil & Diesel
› Lubricant Oil
› Liquids/Additives
› DEF
› Waste Oil
› Water
› Liquid Fertilizer
› Chemicals (non aggressive)
› And many more

19 Projected Run Out Date

Low Level Alert

Consumption Data

Fill Volume

Data transfer available via PC, cloud, SMS, AP1, FTP, email or API.

Sudden Drop Alert
(Domestic usage only)

Liquid Level

CHARACTERISTIC	TRANSMITTER
Operating temperature	-4°F to 122°F
Environmental Protection	IP68 - Outdoors
Radio frequency	4G NB-IoT/CAT-M1
Gauge Type	Ultrasonic
Ultrasonic range	Up to 13.1 ft
Measurement Accuracy	+/- 0.8inch
Battery Life	> 5 Years
Certification	EMC Conformance, ROHS and PTCRB Compliant
Warranty	1 Year

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

UniWatchman^RX

compatible with all existing Smart Monitoring System gauges and industry standard sensors

zone activation alarms

leak detector

more accurate measurement

chemicals

fuel

solids

waste oil

Example Applications:

Drive a klaxon if a waste oil tank reaches a critical level.

Flash a beacon if a theft or leak has been detected.

This unit can be connected to an auto dealer.

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

WATCHMAN®
TANK LEVEL MONITORING

WATCHMAN®
TANK LEVEL MONITORING

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
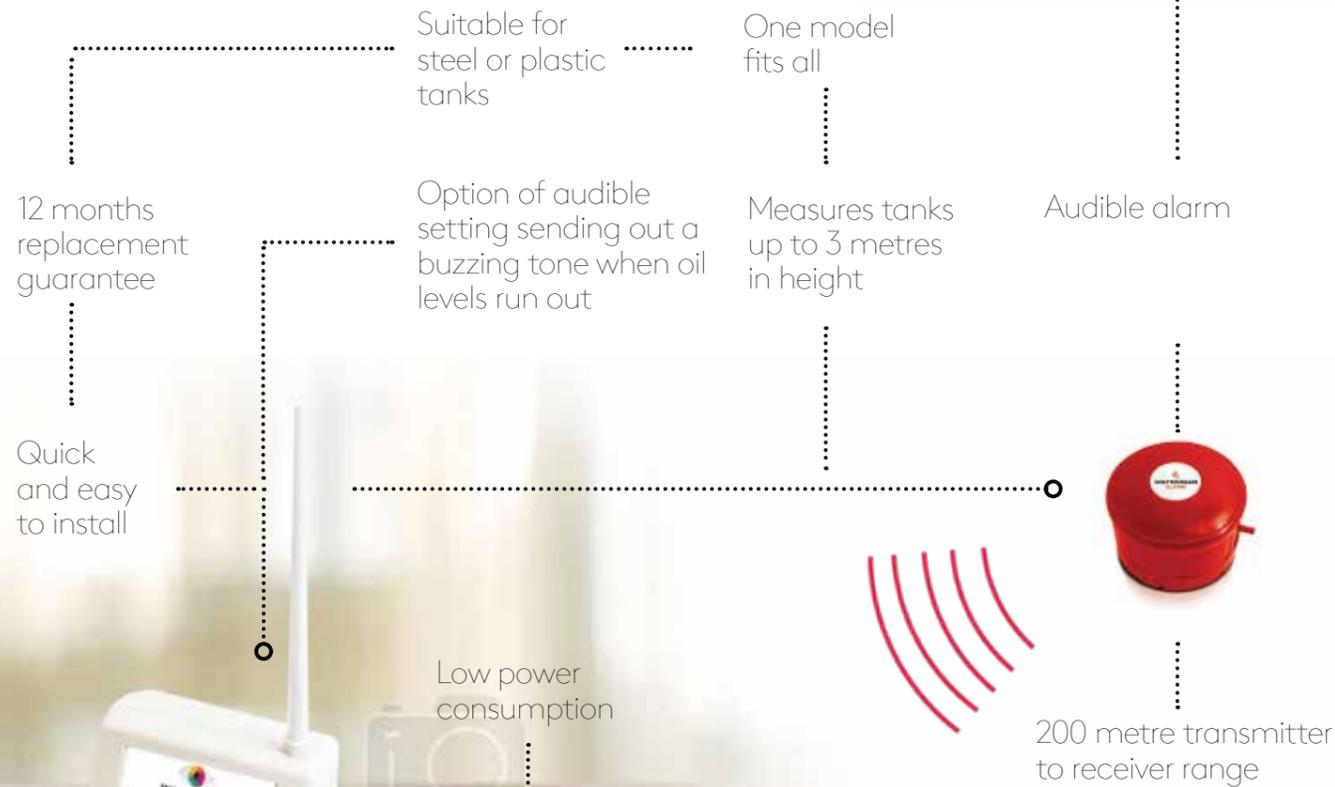
Suitable for steel or plastic tanks

One model fits all

12 months replacement guarantee

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

Measures tanks up to 3 metres in height

Audible alarm

Quick and easy to install

Low power consumption

200 metre transmitter to receiver range

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10ºC to 50ºC
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
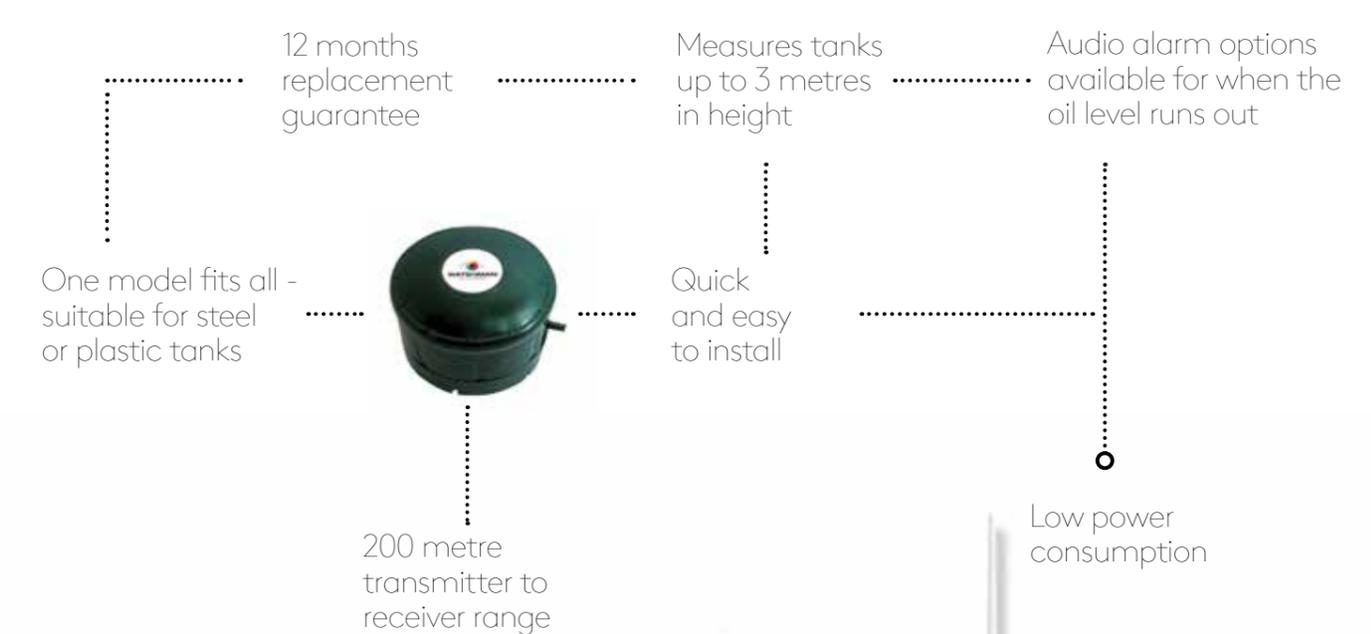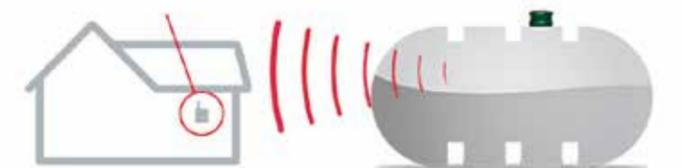
12 months replacement guarantee

Measures tanks up to 3 metres in height

Audio alarm options available for when the oil level runs out

One model fits all - suitable for steel or plastic tanks

Quick and easy to install

200 metre transmitter to receiver range

Low power consumption

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10ºC to 50ºC
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.

Condition monitoring for alarms (e.g. leak, float switch, high level).

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.

Protect your fuel with theft alarm options

The ideal solution for you upgrading or retrofitting tanks

Pump cut off applications

| CHARACTERISTIC	TRANSMITTER
Operating temperature	-10ºC to 40ºC
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

FREE real time user connectivity via LAN

FREE scheduled email report (up to 24 times per day)
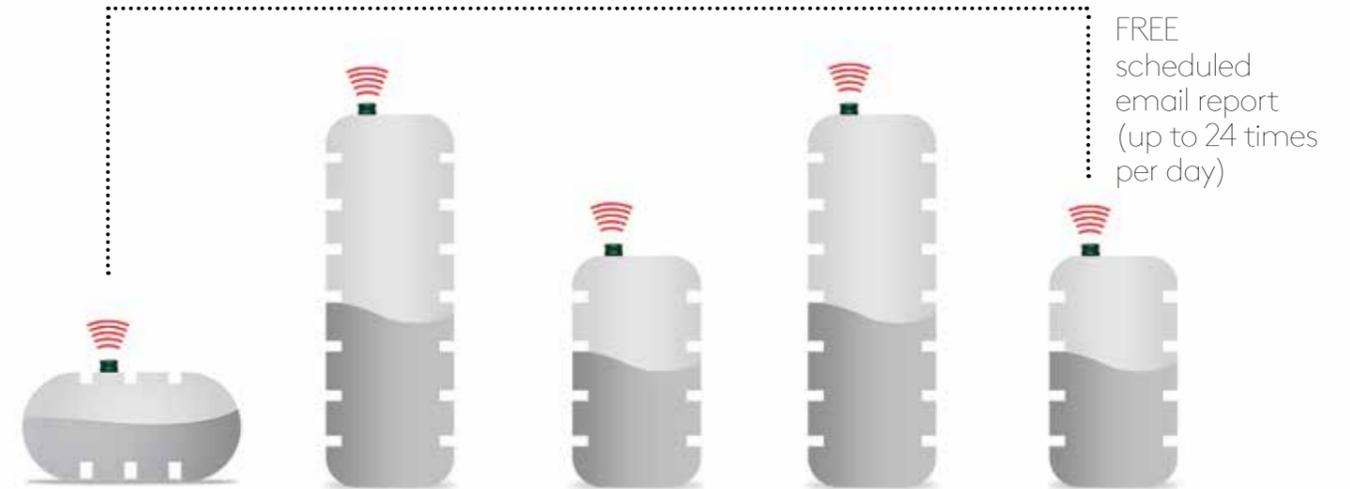
CE certified

Compatible with various sensors

FREE email alerts for high and low level and alarms

Alerts and alarm locally and remotely

Local alarms + BMS connectivity

CHARACTERISTIC	TRANSMITTER
Operating temperature	-10ºC 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

Access
Connect

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.

Current status:
Level
Temperature
Total usage
Capacity of tank

Active graph
- level and temperature

Current location
of the tank

Recent
activities

Real time communication between
terminals and software.

Save money -
live reports,
live level and
control.

Personalised
reports

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

Alerts list

Accurate - level
and temperature
monitoring.

Safe -
active GPS
tracking.

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

Unlimited - operations, users
and vehicles.

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

Database

Tank   User   Vehicle   RFID cards

WATCHMAN®
TANK LEVEL MONITORING

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.

Narrow beam & short dead band

Plug & play setup with TMS300CS

Continuous or switch mode

PVDF enclosure for chemicals and acids

Temperature compensated

Low cost

Long life product

High accuracy

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

Notes

kingspanenergymanagement.com

Kingspan®

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

France
E: cuve@kingspan.fr

Ireland
E: sensor@kingspan.com

Belgium
E: info@kingspan-env.be

Netherlands
E: tank@kingspan.nl

Germany
E: tank@kingspan.de

Sweden
E: tank@kingspan.se

Czech Republic
E: nadrze@kingspan.cz

Poland
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