

Smart Monitoring
UK & Ireland

Watchman Product Guide

Award winning
monitoring solutions
for liquid energy



kingspan.com



Award Winning Monitoring Solutions for Liquid Energy

We are global leaders in on-site tank monitoring systems, having invested in and driven technological innovation across the sector for the last 20 years.

Our affordable monitoring systems allow you to monitor your stocks of fuel, heating oil, AdBlue®, lubricant, liquids, LPG, materials (bulk storage), liquid fertiliser, water, and much more.



Agriculture

On-site Protection & Monitoring
Our simple-to-use technology allows farmers to keep an eye on stocks and order replenishments in good time, avoiding the stress and extra cost of an emergency purchase.



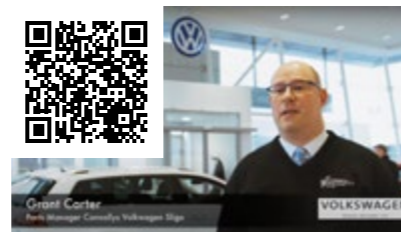
Domestic

"Alexa, When Will I Run Out of Oil?"
The Kingspan SENSIT WiFi tank level gauge enables you to monitor your heating oil supplies via your phone. It's even integrated with Alexa!



Facilities Management

Monitor Stock Levels 24/7
"Stock management is critical to our business and the excellent service Kingspan provided from the initial install to the after sales support has been crucial to the success of this project"
Emanuel Trindade, Volkswagen Group Ireland



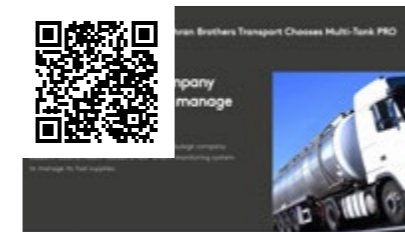
Tank Monitoring Tailored to Your Needs

They measure the amount of fuel, oil, or other liquid within a tank and then provide you with this data either on an electronic device attached to the tank, or send it to a mobile phone, tablet or laptop. You can check your supplies, day or night, wherever you are based.



Haulage & Logistics

Optimum Fuel Management
Gaughran Brothers Transport Ltd turned to Kingspan's fuel monitoring system to improve stock management of its diesel and AdBlue® supplies.



Fuel Oil Distributors

Harness Your Data
Our intelligent systems have the capability to monitor tanks across your business giving you full transparency on the performance of your tank population.



Our smart tank monitoring devices are widely used in haulage and logistics, agriculture, facilities management and to monitor domestic heating oil supplies.

Not surprisingly, therefore, we have a large range of monitoring technology for you to choose from!



Benefits



Peace of mind – never run out of oil again!



Get updates sent to your phone



Manage your oil 24/7



Safeguard your supplies with sudden-drop alerts



Reduces risk of local pollution incidents (overfilling tanks)



Provides full, customised reporting



Supports legal compliance



Group and organise flexible deliveries



Customer Retention



Restock in a timely manner – and when prices are lowest



Efficient stock management and procurement



Remote Tank Monitoring

Connect Sensor® & Kingspan Connect®

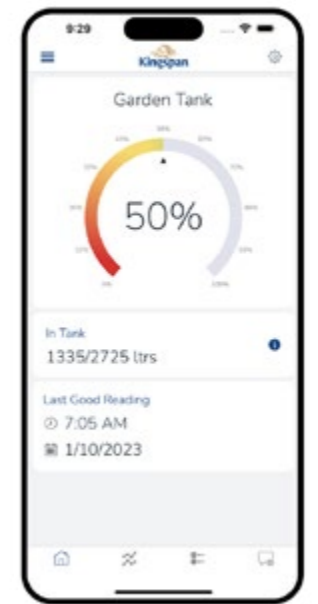
The world's most cost effective remote telemetry reporting platforms.

Our central, secure and fully scalable Connect Sensor® and Kingspan Connect platforms offer cost effective data transfer for businesses right across the world. These systems provide scheduled, bespoke reports using data transmitted from our central secure database. The customer can also access the data remotely on their phone or tablet using the Kingspan Connect App.

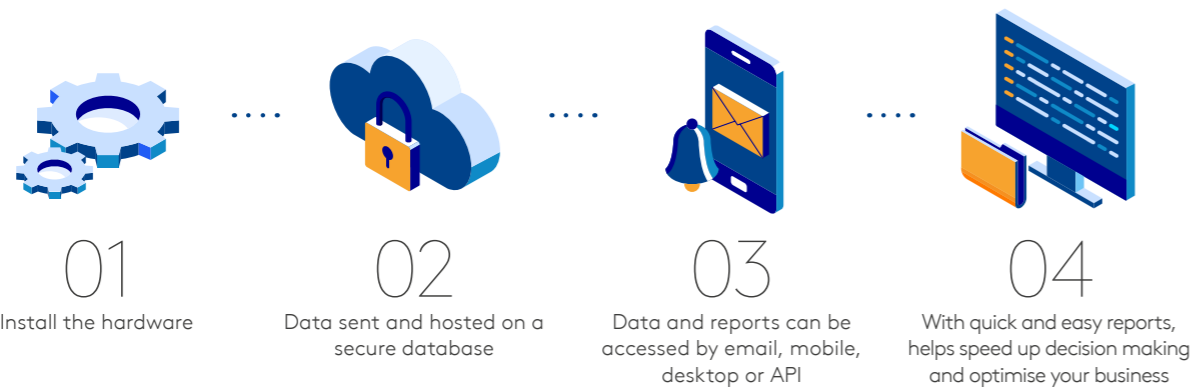
The Connect Sensor® and Kingspan Connect telemetry solutions give total control and visibility over all areas of your business, helping you monitor costs, energy usage and much more.



Kingspan Connect App



How it works:





Local Tank Monitoring

Watchman[®] Sonic Advanced



The revolutionary electronic measuring gauge showing how much liquid there is in your tank and setting off an alarm when there is a sudden drop in liquid levels

Features & Benefits

- Quick and easy to install and one model fits all
- Unique Serial Number
- Suitable for steel or plastic tanks
- Sudden Drop Alarm (ON/OFF)
- Waveguide Mode (ON/OFF)
- Low power consumption
- 200 metre transmitter to receiver range
- Measures tanks up to 3 metres in height
- Audible buzzing tone when liquid levels run out

CHARACTERISTIC	TRANSMITTER
Operating Temperature	-10°C to 50°C
Environmental Protection	RX Indoor use only; TX - IP67
Radio Frequency	433MHz
Gauge Type	Advanced Ultrasonic
Receiver Level Display	10% tank height per bar
Ultrasonic Range	12cm - 3m
Measurement Accuracy	+/-2cm

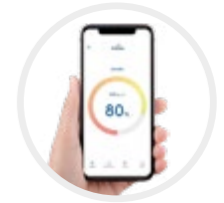
Remote Tank Monitoring

Watchman SENSiT

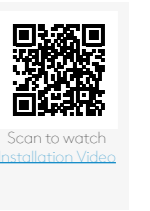
A tank level gauge that enables you to monitor your liquid levels through an easy-to-use smartphone app



Compatible with Alexa



Connects to our mobile app - Kingspan Connect



Scan to watch Installation Video

Features & Benefits

- Easy to Install
- Long Transmitter Battery Life up to 3 years
- Waterproof Transmitter
- Compatible with Alexa
- Wifi Connection
- Live Sudden Drop Alerts
- Predicted run out date
- Consumption data

Stay informed and check your tank levels from anywhere with the SENSiT smart tank level monitor

This neat kit is a brilliant way of staying in complete control without being tied to a single location.

One off payment, no additional fees.

Monitor up to 3 devices with one login.



* Screws are included inside the pack



USB Receiver



Watchman Sonic Advanced Transmitter



SENSiT Quickstart Manual



Watchman Sonic Advanced Install Manual



Remote Tank Monitoring

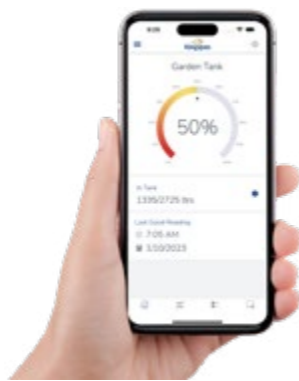
Watchman SENSiT USB Receiver Device

USB receiver device that allows you to access smartphone app features on your Watchman SENSiT ready oil tank.

If you have a Watchman SENSiT ready tank, you can upgrade by getting a Watchman SENSiT USB receiver and take advantage of all the Watchman SENSiT Benefits.

All you need to do is:

- Make sure your tank is Watchman SENSiT Ready or has the Watchman Sonic Advanced
- Get the SENSiT USB receiver
- Download 'Kingspan Connect' mobile app
- Plug in your USB receiver to a 5V DC power supply*
- Follow easy step-by-step instructions on the app
- And Enjoy!



Simple and easy to set up
Scan the QR Code to watch the 'Easy to install' video:

Features & Benefits

- Consumption Monitor: track the usage in your household
- Predicted Run Out Date: you'll never run out of oil
- Level Alerts: peace of mind
- Sudden Drop Alerts
- Compatible with Alexa
- Wifi Connection
- Easy to Install

CHARACTERISTIC	USB RECEIVER
Operating Temperature	-10°C to 60°C
Storage Temperature	-20°C to 60°C
Operating Humidity	20% to 80% non-condensing altitude range
Environmental Protection	Indoor use only
Radio Frequency	433.92 MHz FM (EU/UK/NZ/AUS)
Altitude Range	2km above sea level
Sensit to Transmitter Range	200m**
Power Requirements	(DC) 5VDC
Power Connector	USB A
Operating Platform	Via App (Android, IOS)
Dimensions	84mm x 25mm x 15mm
Weight	40g

*Power supply not included in the pack
**200m in normal "line of sight" conditions. The effective range of this product can be influenced by external sources that may reduce the range of the transmitter or sensitivity of the receiver



Remote Tank Monitoring

Watchman Radar

The precision of radar-based technology. Level monitor for tanks up to 6m.



Watchman Radar
Promo Video
Scan the QR Code to watch video



WatchmanToolbox App*



*for configuration only.

CHARACTERISTIC	TRANSMITTER
Dimensions	Ø = 102 mm, H = 77 mm
Weight	453 g
Housing Material	PA - polyamide material
Operating Temperature	-25°C to +60°C
Environmental Protection	IP67
Connectivity	NB-IoT/CAT-M
Gauge Type	Radio microwaves
Radar Range	10 cm to 6 m*
Measurement Accuracy	± 1 cm*
Battery Life	Up to 5 years**
Power Requirements	Non-changeable primary cells 3V
Mounting Options	3M adhesive tape or sealing materials for levelling. Screws or bolts for additional security (optional).
Certifications	UKCA/CE / ATEX

* The device must be installed on a flat surface for a maximum measurement accuracy.
** Battery life will be reduced if used or stored outside of specified parameters.

Benefits

- Simple Assembly: Mounted quickly and without drilling on a plastic tank
- Save Costs: Investing in telemetry will allow you to better manage your resources
- High Accuracy: Even in winter, regardless of the type of stored medium
- Mobility: Full control with the Kingspan Connect mobile app
- Cloud-Based Technology: Access usage and level data anytime and anywhere
- Security: Have full control of where your fuel is going

Features

- Threshold Alerts (Empty, Low, High & Full)
- Sudden Drop Alert
- Fill Alert
- GPS Tracking
- Gyroscope



Remote/Local Tank Management System

Watchman Access



Intelligent fluid and fleet management solution

Watchman® Access terminal is a device which provides complete control and visibility over distributed fuel in your tank to keep your business moving.

As system administrator you can regulate liquid usage by controlling access rights for individual employees and vehicles. It enables you to efficiently manage multiple tanks and see the filling level of each tank, refilling as required. Real time data and customised reports allow you to make quick and smart decisions.

- Real time communication between terminals and cloud based platforms
- Connect anywhere anytime via Wi-Fi, GSM, LAN
- Unlimited operations, users and vehicles
- Safe identification with unique RFID cards/fobs



Features & Benefits

Current status: ▪ Level ▪ Fluid Temperature ▪ Total usage ▪ Capacity of tank	Save Money Live reports, level and control	Active Graph Level and fluid temperature	Safe Active GPS Tracking	Database: ▪ Tank ▪ User ▪ Vehicle ▪ RFID cards ▪ Actions
Easy to use Remote control, supervision and push notifications	Personalised Reports	Alerts List	Live Remote Fluid Level Data	Recent Activities

*Watchman Access is for customer's own use and not suitable for resale as is not 'weights & measures' approved.

Watch 'Easy to Use' video here



Local/Remote Tank Monitoring

Watchman Flo

Intelligent flow, level and dispensing measurement system



WatchmanToolbox App*

*for configuration only. Available on the appstore and google play

Available on the App Store

GET IT ON Google Play



Features & Benefits

Level Management Control and visibility over liquid levels	Flow Management visibility when dispensing	Leak detection	Overfill detection
Low/High Level alarms never run out	Cloud based software mobile app	Refuelling memory previous refuelling history (max 10)	Pump and Nozzle control make refilling easier

CHARACTERISTIC	TRANSMITTER
Operating temperature	-20°C ÷ +40°C
Environmental Protection	IPX7
RadioFrequency	433.92 MHz
Cloud Communication	NBLoT, LTE-M, 2G, Wifi
Dimensions	151 x 125 x 60 mm
Mounting Type	Wall Mounted
Compatible with	Watchman LT, Watchman Sonic Advanced/Plus, 4-20mA probes
Bluetooth	4.2

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Liquids Compatibility

Compatibility	Watchman WAP	Watchman Alarm/Sonic	Watchman Sonic Advanced	Watchman SENSIT	Watchman Access*	Watchman Flo*	Watchman Radar
Home Heating Oil	•	•	•	•	•	•	•
Gas Oil & Diesel	•	•	•	•	•	•	•
Lubricant Oil	•	•	•	•	•	•	•
Liquids/ Additives	•	•	•	•	•	•	•
AdBlue®	•	•	•	•	•	•	•
Waste Oil	•	•	•	•	•	•	•
Water	•	•	•	•	•	•	•
Liquid Fertiliser	•	•	•	•	•	•	•
Chemicals (non aggressive)	•				•	•	•
Chemicals (aggressive)**					•	•	•

* It depends on the gauge type (sensor) used with the receiver.

**check with the manufacturer/supplier on the chemical compatibility prior to use.

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