

Watchlog Bluetooth & long range wireless sensors & software

# Change how you view your machine data with Watchlog

Wirelessly measure, capture and control.



## Watchlog

BLUETOOTH & LONG RANGE WIRELESS  
SENSORS & SOFTWARE PACKAGES.



20m to 50m



### Watchlog Bluetooth

This compact, battery-powered system connects wirelessly to mobile apps or a PC within a range of up to 90 meters. It's perfect for portable, short-range measurements without the need for cables or gateways.

### Typical applications

- Single machine
- Mobile test engineer
- Single vehicle in-cab monitoring

Monitor from a safe distance.  
Ad-hoc testing.

# The Watchlog Range

Simplifying secure sensor data transfer and wireless links.

Up to 1.6km

Unlimited



### Watchlog Wireless

With a robust wireless range of up to 1.6 km and support for up to 60 sensors, this system is ideal for industrial and on-site monitoring over large areas. It stands out for its versatility, offering options for local logging of multiple sensor types.

#### Typical applications

- Single site <1.6km in size, multiple assets
- Large asset(s) monitored locally
- Single vehicle on-site monitoring

Monitor from a safe distance.  
Continuous monitoring.



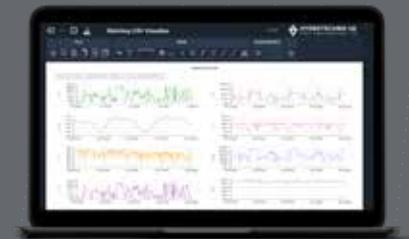
### Watchlog Pro

Watchlog Pro enables remote access to live and historical data from anywhere via a secure web platform, with alerts delivered by email or SMS. It differentiates itself by combining long-range wireless sensing with scalable, cloud-based data visualisation and integration.

#### Typical applications

- Multiple sites simultaneously
- Rental assets
- Entire remote vehicle fleet

Monitor and control from anywhere.  
Save money with deeper insights.



### Watchlog CSV Visualizer

Unlike the other Watchlog products, CSV Visualizer is a software-only product that does not support the use of external sensors. Instead, CSV Visualizer accepts CSV (text) files exported from sensors, gauges, or other software, allowing the quick and easy graphical display and manipulation of the contained data.



Watchlog

# Bluetooth

The low cost quick, easy and safe way to add live pressure, temperature, flow and RPM monitoring, and datalogging to your system.

The low-cost, cable-free temperature sensors, pressure sensors, and pressure gauges are designed for use with our free monitoring and datalogging software, which is available for Windows® from our website, or as a mobile app available in the iOS App Store and Android Google Play Store.

Easy to install and operate in new or existing systems, the Watchlog Bluetooth range offers a quick and safe way to begin live pressure and temperature monitoring. It's ideal for mobile test engineers, in-house testing across your site, or permanent system installations - simply start the app and begin logging immediately, all from a safe distance.

Add flow and RPM sensors via our frequency to Bluetooth transmitter.



Distance up to 50m



Measure pressure and temperature safely on your PC, smartphone or tablet.



Bluetooth pressure gauges, pressure sensors, flow meters, RPM and temperature sensors



Free Watchlog measurement and logging mobile app



Log data over time using the app



Share logged data via email or to another device for further analysis



Monitor and log differential pressure using two pressure sensors



Additional sensor options available such as depth and load sensors



Monitor over distances up to 50 meters



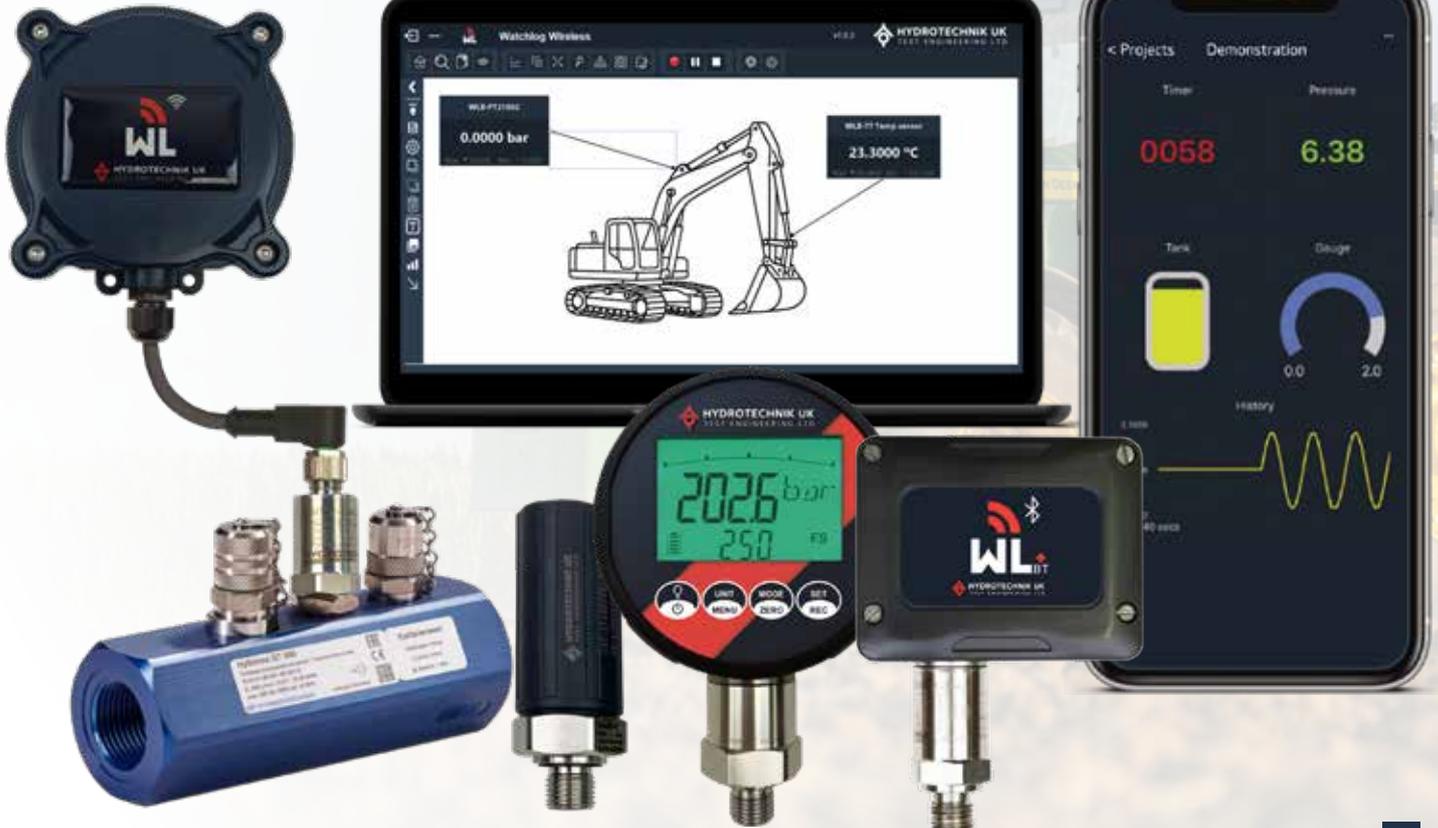
Monitor up to 12 sensors at a time



Create custom projects/visuals

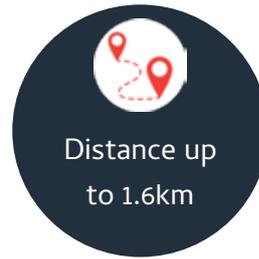


Create custom calculation channels





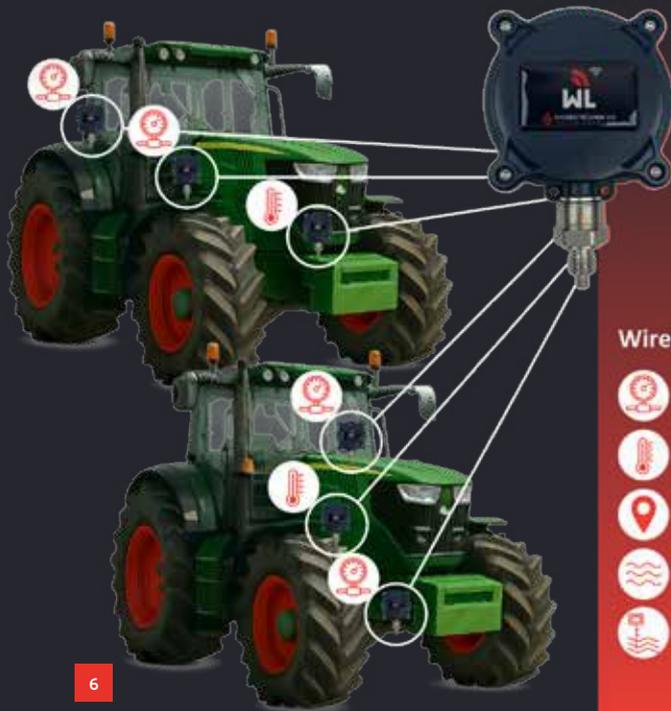
# Watchlog Wireless



Distance up  
to 1.6km

**Watchlog Wireless is our medium-range wireless monitoring solution, designed for entire plant wireless and remote monitoring with clear visualisation.**

- Each transmitter sends the sensor data to a receiver connected to your Windows tablet, laptop, or desktop computer.
- Refresh rates ranging from every 1 second to 10 minutes
- Numerically or graphically view and record live system pressure, temperature, flow, level, and more at distances of up to 1.6km.
- Monitor up to 60 sensors from a safe distance, wherever you are on your site, or in or around your vehicle.
- Create your own calculation channels, such as differential pressure based on two pressure readings
- Include graphical widgets on custom dashboards to represent the sensor data or calculations from your application.
- With live data display and logging of up to 100 sensors simultaneously, a refresh rate of up to 200 times per second, and potential to increase longevity with external power.



### Wireless sensors available

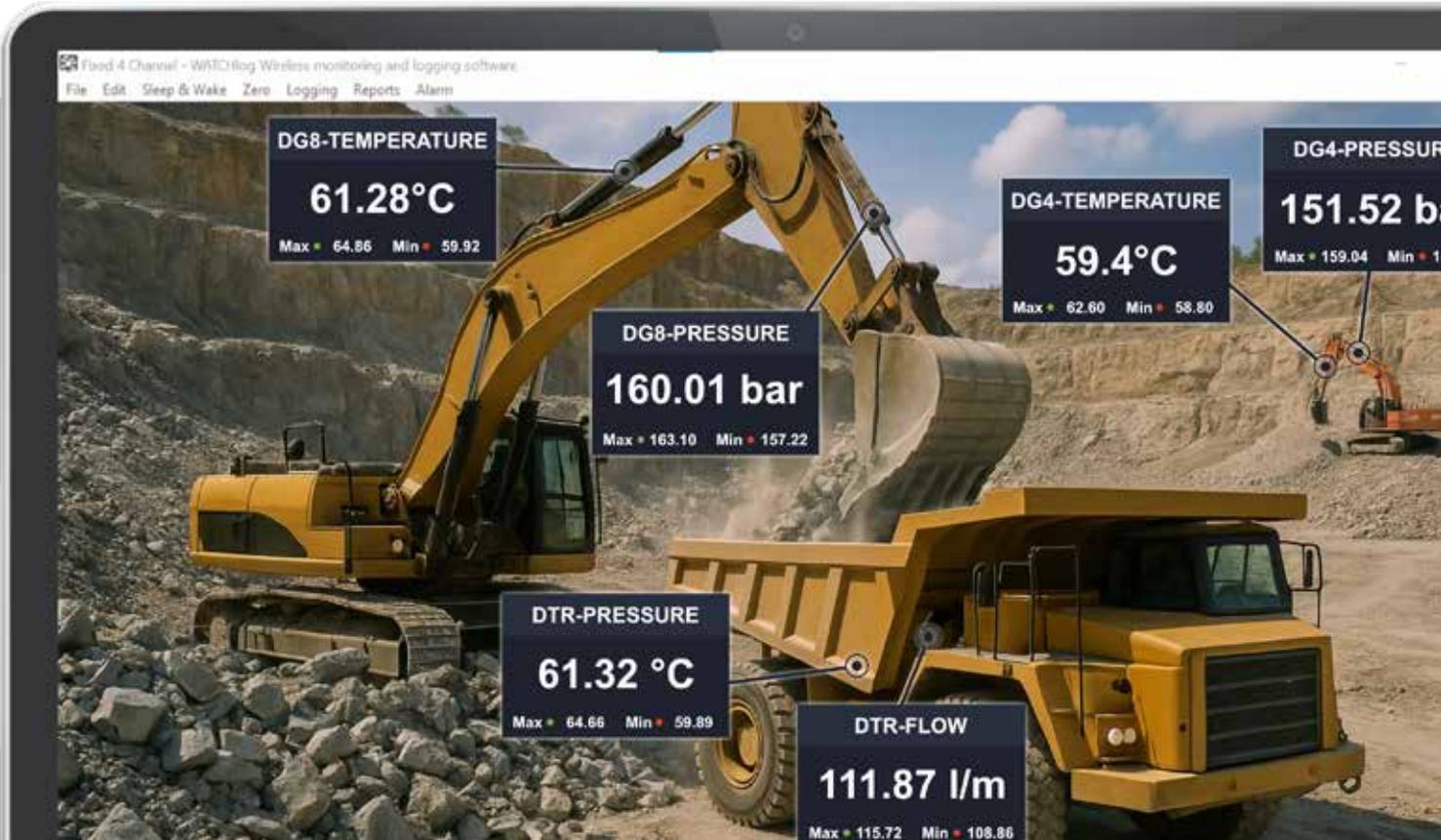
-  Pressure
-  Temperature
-  Position
-  Flow
-  Level



### USB receiver PC software

-  Monitor all sensor data
-  Configurable alerts
-  Geographical display options
-  Numerical data display options
-  Log sensor data
-  Export saved data

Wireless monitoring  
across your entire plant.  
Remote access and clear  
visualisation.





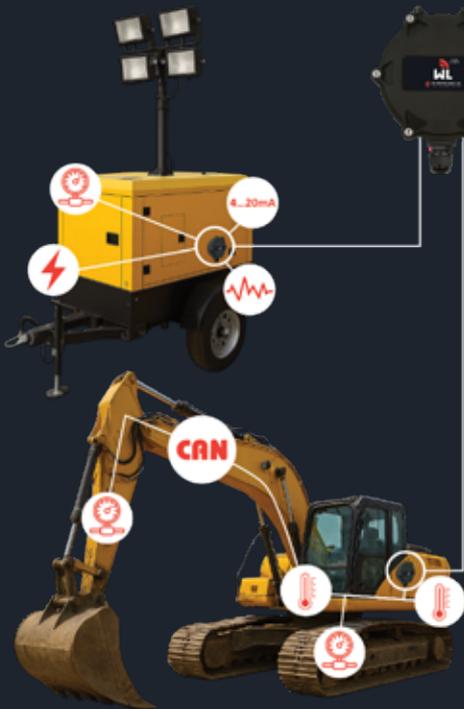
Watchlog  
Pro



Unlimited  
distance

Watchlog Pro is our remote monitoring and control solution. Read machine data and external sensors. Powered by advanced telemetry devices, upload data to the cloud using 4G or Wi-Fi, then monitor and control from anywhere.

From small, static monitoring solutions, such as pump control or oil contamination monitoring, to rental fleet or multi-site manufacturing plant monitoring and switching control, Watchlog Pro provides you with all the insights you need.



**Sensing & data capture**  
External inputs

- CAN** (CAN bus)
- Modbus** (Modbus)
- RS485** (RS485)
- 4...20mA** (4...20mA)
- frequency** (frequency)
- voltage** (voltage)

**Data transmission & gateway function**  
Watchlog Pro provides

- tamper** (tamper)
- 3-axis accelerometer** (3-axis accelerometer)
- vibration** (vibration)
- magnetic switch** (magnetic switch)
- ambient temperature** (ambient temperature)
- GPS** (GPS)

**Power**  
internal replaceable AA batteries, solar, or with 10V to 75V DC

**Watchlog Pro cloud web portal**

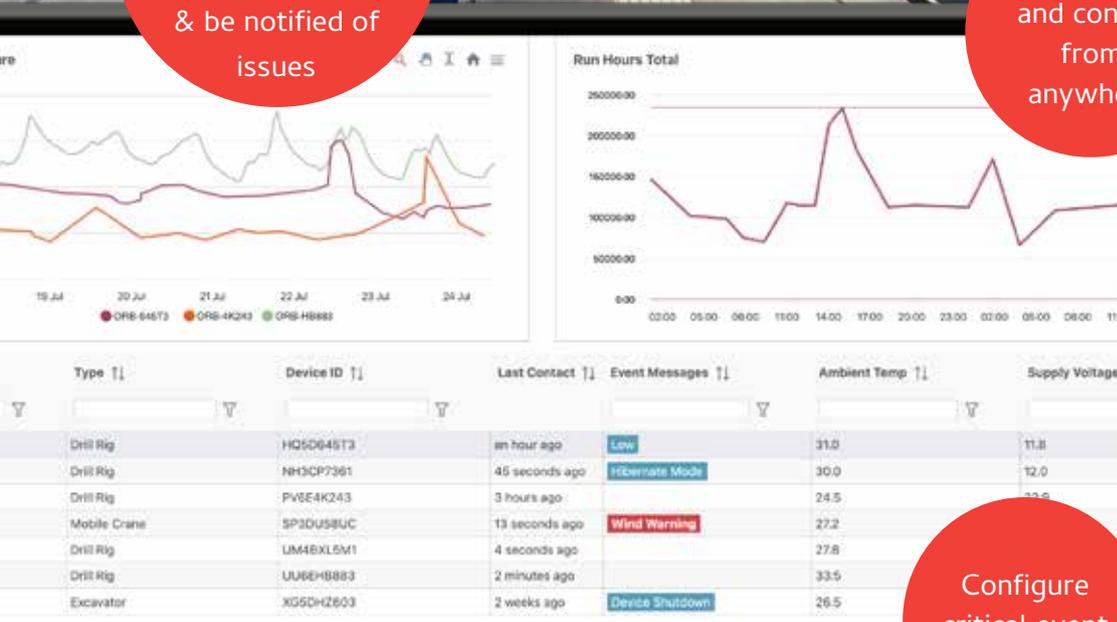
- customisable dashboards** (customisable dashboards)
- graphical monitoring** (graphical monitoring)
- control widgets** (control widgets)
- numeric/graphical readings** (numeric/graphical readings)
- alert configuration** (alert configuration)
- download historic data** (download historic data)
- mobile SMS & Email alerts** (mobile SMS & Email alerts)



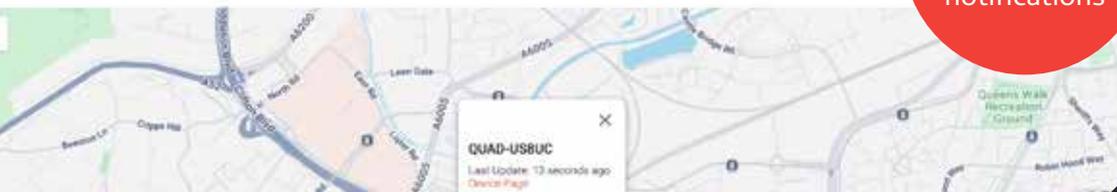


Save money.  
Plan maintenance  
effectively, based  
on deep insights,  
& be notified of  
issues

Monitor  
and control  
from  
anywhere



Configure  
critical event  
notifications



Continued over



Watchlog

Pro

Typical examples



### Machine monitoring

- Pressure/Temperature
- Speed monitoring
- Fuel level
- Flow rate
- GPS location
- ...and more



### Waste water management

- System optimisation
- Safe monitoring
- Issue detection
- Trend analysis
- Flow rate
- Volume
- ...and more



### Oil contamination monitoring

- Pressure/Temperature
- Oil cleanliness codes
- Safe monitoring
- Remote alerts
- Fuel level
- Oil life
- ...and more

Monitor any  
anywhere, a



Everything from  
at any time.



## YOUR APPLICATION

Monitor dangerous machinery safely  
GPS location, tire pressure, engine faults  
EV battery status, regeneration time  
Crane position and wind monitoring  
Train fleet management  
...and more!



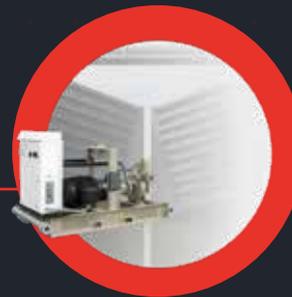
## Hire fleet tracking

- Remote alerts
- Remote shutdown
- GPS location
- Running hours
- Power status
- ...and more



## Remote generator monitoring

- Running/Idle/Off
- Running hours
- Remote alerts
- Oil condition
- Fuel level
- ...and more



## Pump monitoring & remote control

- Pump temperature
- Pump status
- Oil pressure
- Water level
- Remote alerts
- Remote activation
- ...and more

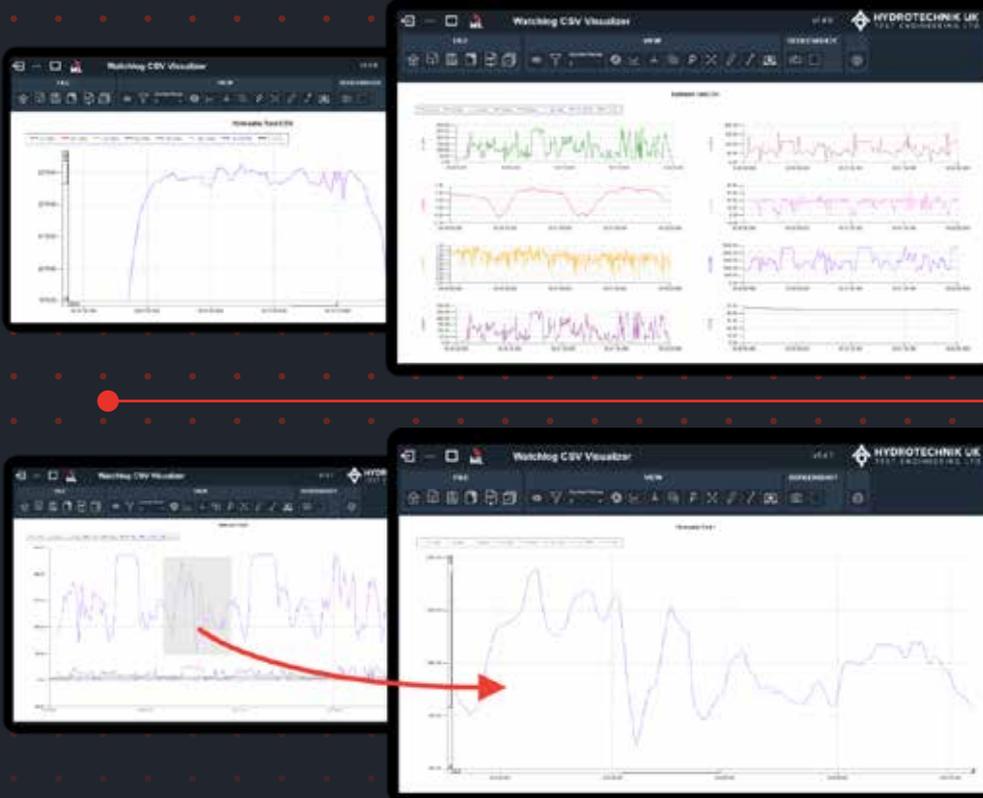


Watchlog

# CSV Visualizer

Watchlog CSV Visualiser is an affordable, easy-to-use software solution which displays .csv files as interactive graphs.

Easily visualise data exported from dataloggers, PLCs and other instruments, including Watchlog hardware and software, regardless of their format using an easy drag-and-drop import. Create reports easily.

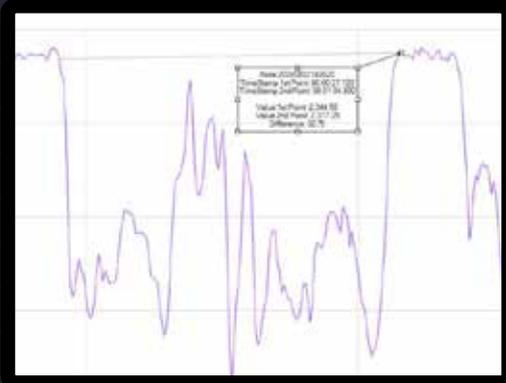


Display tens of millions of data points within seconds using chart types such as line, area and bubble charts, depending on your application.



Filter for further analysis. Plot channels to multiple axes for relationship analysis or split for individual analysis. Add notes to graphs to highlight key information.

Drag-and-drop  
your CSV files to  
visualise sensor data  
instantly



Annotate your graphs at single points, or point-to-point to note differences between 2 values.



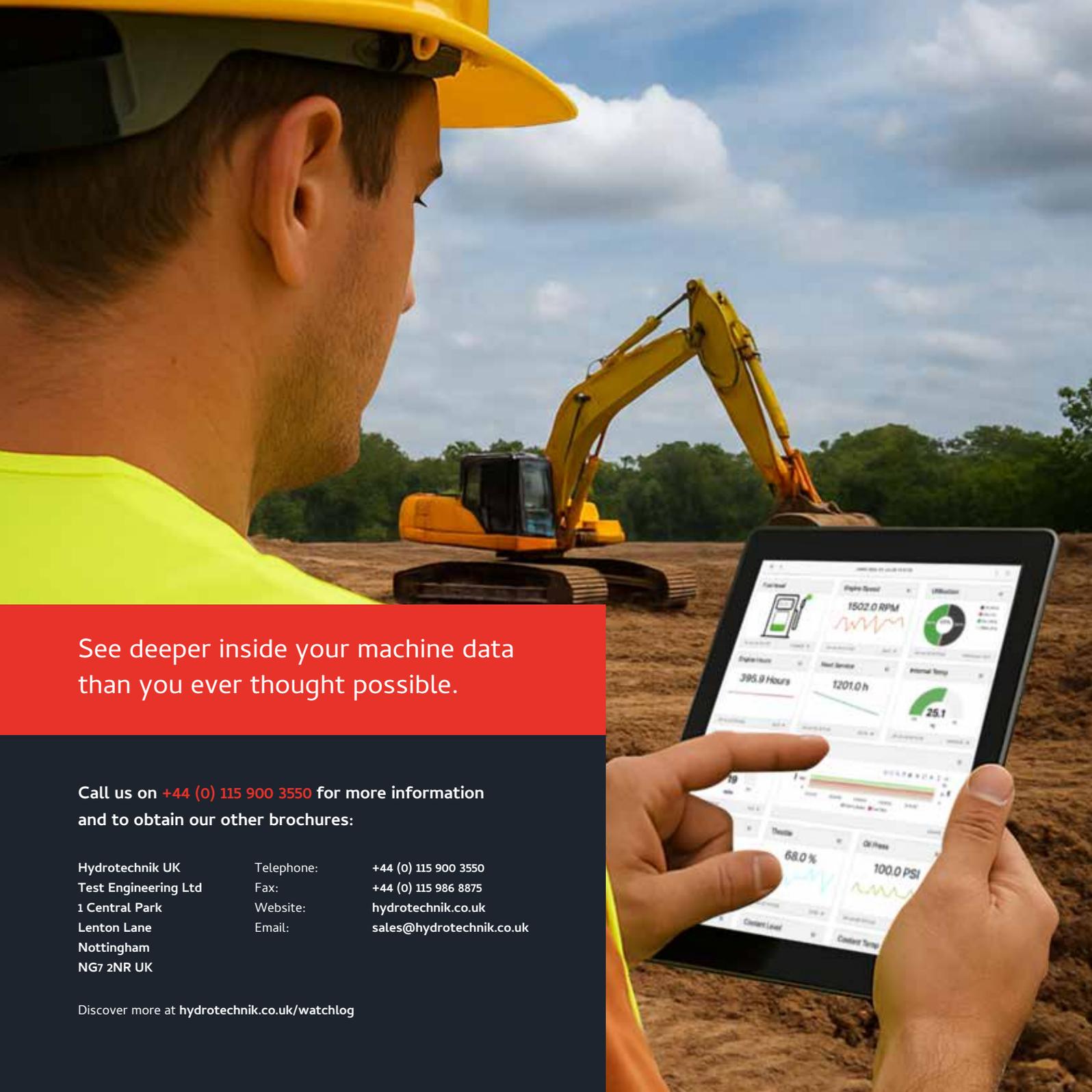
Customise and export your annotated reports using part or all of your data, optionally using your company branding.



Each saved test file can be accessed later within the Visualiser's extensive database, ensuring ease of comparison against future repeated tests, such as annual service testing.

Watchlog Technical Product Comparison	 Watchlog Bluetooth	 Watchlog Bluetooth Plus	
 Sensor types available	Pressure, Temperature, Flow & RPM Datalogging pressure gauge	Pressure sensor, Hydrostatic level sensor, Compression load cell, Compression load link	
 Power options	CR2032, AA batteries, AAA batteries	AA batteries	
 Software cost and availability	Free mobile app for iOS or Android/ PC Windows software	Free mobile app for iOS or Android	
 Data refresh rate	Up to 100ms (10 per second), depending on sensor type and receiving device		
 Connection type	Bluetooth		
 Transmission distance	Up to 20 meters	Up to 50 meters	
 Maximum number of connected sensors	4	12	
 Live data display	✓	✓	
 Display data graphically over time	✓	✓	
 Log shared data as a CSV file	✓	✓	
 Calculation channels (eg differential pressures from 2 pressure readings)	Differential pressure only	✓	
 Graphical widgets to represent sensor values (eg gauges or tank levels)		✓	

	 Watchlog Wireless	 Watchlog Wireless Plus	 Watchlog Pro	 Watchlog CSV Visualizer
	Pressure, Temperature, Flow, Level, Force, Displacement	Pressure (standard or ATEX), Pressure, Temperature, Flow, Linear Position, Level, RPM, Wind Speed, and more	Anything with mA, Voltage, plus CANbus, Modbus, Frequency, Oil Condition, Switching inputs & outputs plus internal GPS position, speed, temperature, angle, vibration, and tamper sensors	N/A
	AA batteries	AA Batteries, D-Cell batteries (longer life), External supply, External battery pack, Solar	External, Solar, AA batteries	N/A
	Free Windows software from Hydrotechnik website	Free Windows software from Hydrotechnik website	Annual subscription to cloud platform or integration to a custom cloud platform	Annual subscription or perpetual licensing available
	Once every 1 second up to once every 10 mins	Once every 5 milliseconds (200 per second) up to once every second	Every 5 seconds	N/A
	Sensor transmitter to receiver on Windows		Watchlog PRO 4G or Wi-Fi connection to cloud	N/A
	500 meters	800 meters (1600 meters with optional extender)	Unlimited (assuming Wi-Fi or 4G cell data network availability)	N/A
	60	100	Unlimited	N/A. Sensor data is drag-and-dropped into software.
	✓	✓	✓	No
	✓	✓	✓	Yes, from CSV data
	✓	✓	✓	Summarised data can be exported as CSV
		✓	✓	N/A
		✓	✓	



See deeper inside your machine data than you ever thought possible.

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