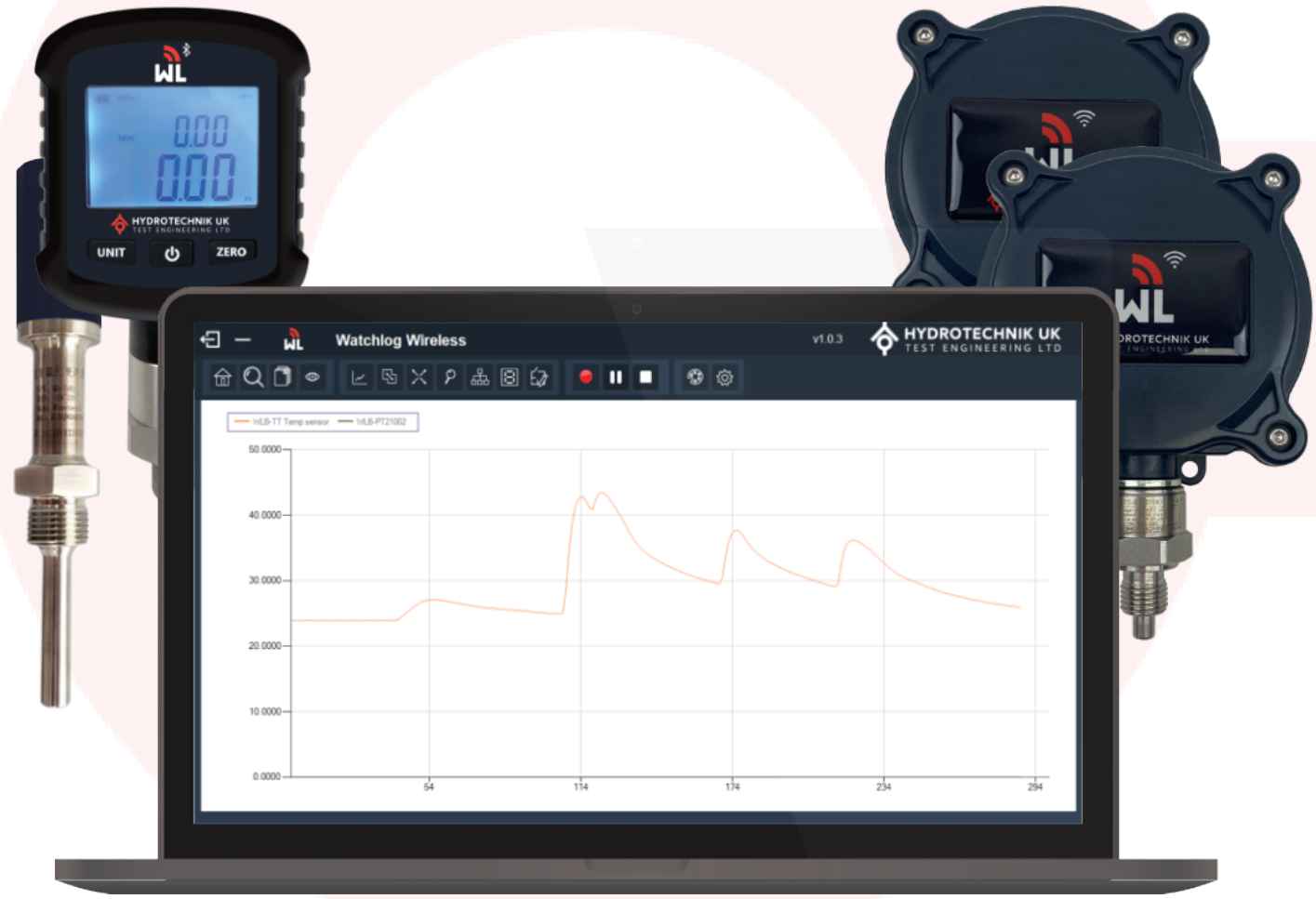
HYDROTECHNIK UK
TEST ENGINEERING LTD

Monitoring and datalogging software
for Microsoft Windows® compatible with
Watchlog Bluetooth® & Watchlog Wireless sensors

Watchlog Bluetooth & Wireless Software User Manual



OPERATING MANUAL (ENGLISH)

DISCOVER MORE AT
HYDROTECHNIK.CO.UK/WL-DESKTOP

Please keep this operating manual for future reference.
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INTRODUCTION

Minimum System Requirements

Specification	Detail
Supported OS	Microsoft Windows 7 or higher
CPU	Intel or AMD dual core processor
Memory	2 GB RAM
Hard disk space	60 MB storage space for software installation
Display Resolution	1280 x 800
Connectivity	Bluetooth (internal or using external USB adaptor) for Watchlog Bluetooth connection

Prerequisites and Installation

- .NET Framework 4.6.2 or higher
- Latest version of Microsoft Edge

Run the "Install" file, available by scanning the QR code on the right or from https://hydrotechnik.co.uk/wl-desktop, with the new software installer version in the same folder. Then follow the onscreen instructions to complete the installation. Following completion, a reboot isn't necessary.

Opening the Software

The software can be run from either the desktop icon or the Start Menu. For quickly locating the app shortcut, press the Windows button and begin typing "Watchlog Wireless".

Medium Range Wireless or Bluetooth

This software has been designed to work with both Watchlog medium range (500m) wireless transmitters as well as Watchlog Bluetooth-enabled Pressure and Temperature sensors (20m). To switch between the two sensing types, please refer to Settings.

Bluetooth Sensor connections

When initially searching for Bluetooth sensors to connect to there can be a delay. In any workplace environment, there can be numerous BLE-enabled devices such as PC's, Printers, Phones, Tablets, Watches, etc. The software features an internal filtering system that scans and pairs with Watchlog devices. Please note that this can take some time depending on the number of devices in close proximity, potentially up to 120 seconds.

Wireless (500m) Sensor Selection

Wireless sensors will be found more quickly due to the direct establishment of transmitters dedicated to a USB receiver.

The Watchlog Bluetooth mobile app

The Watchlog Bluetooth & Wireless Software works alongside our Watchlog Bluetooth app, which is free to download and use with our Watchlog Bluetooth range of sensors and gauges. The app allows live monitoring and datalogging for up to 4 sensors simultaneously.

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Find out more by scanning the QR code to the right or by visiting hydrotechnik.co.uk/wlb-app.

Important Note: Bluetooth technology will only allow sensors to transmit sensor data to the desktop software OR the mobile app at any one time, not both simultaneously.

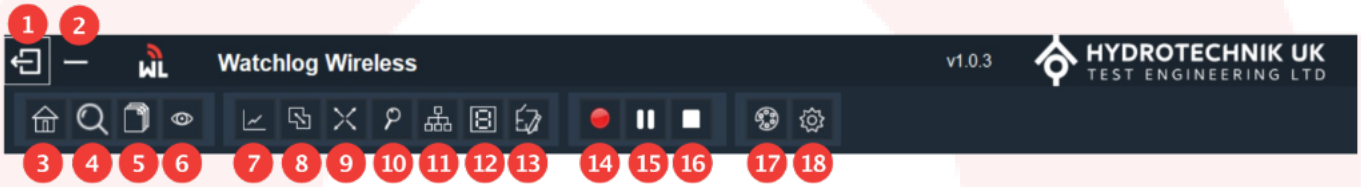
Installing Watchlog Visualizer Software (optional)

Watchlog Wireless software is designed for viewing and recording live data. To create detailed reports, you can export data from the software to a .csv file for Excel, or, alternatively, install Watchlog Visualizer, a special visualisation and report-building software developed by Hydrotechnik UK.

Run the "Install" file with the new software installer version in the same folder. Then follow the onscreen instructions to complete the installation. Following completion, a reboot isn't necessary.

Watchlog Visualizer and a detailed user manual can be found available by scanning the QR code to the right or from hydrotechnik.co.uk/csv.

MAIN TOOLBAR OPTIONS



1. Exit – Close the application.
2. Minimise – Hide the application. Bring back into view from the taskbar.
3. Home – Shows the main application screen graphically
4. Search for Bluetooth or Wireless Sensors (see settings)
5. Show a list of previous tests
6. Show and hide selected sensors, re-name, choose colours, allow min/max display, add/remove from the graphical display
7. View sensor data graphically all on one graph
8. Split connected sensors into separate graphs
9. Graph reset: Return to full data view (after zooming, for example)
10. Zoom or Pan a graph
11. View connected sensors, zero sensor
12. View sensors numerically
13. Visualisation: View sensors numerically overlaid on a schematic or image
14. Start recording
15. Pause recording
16. Stop recording
17. Graph theme settings for graph foreground, background and connected sensors
18. Settings: Wireless or Bluetooth, set scanning rate (fastest is preset), min/max show/hide

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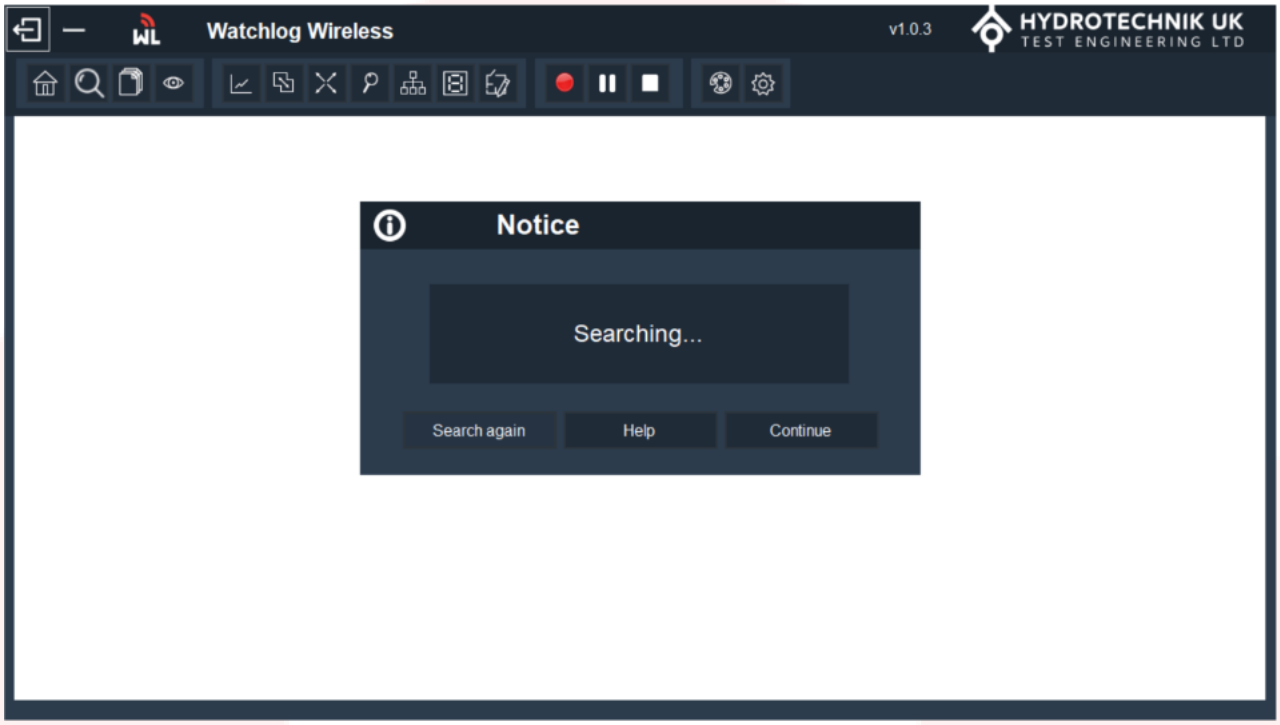
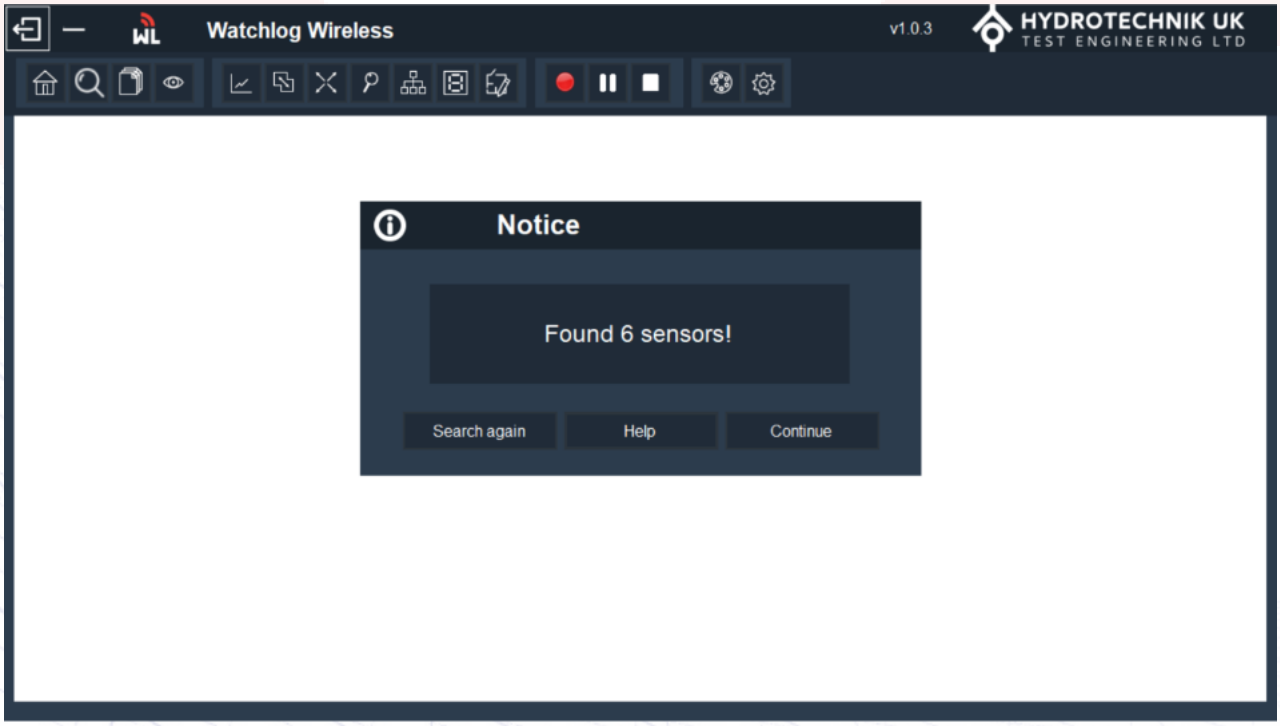
GETTING STARTED

Search for Sensors and showing results graphically

This function should be used after selecting and saving the type of sensor you wish to connect to: Bluetooth or Wireless (500m). as discussed above, When initially searching for Bluetooth sensors to connect to there can be a delay as the software has to filter out all but Watchlog Bluetooth sensors.



You will then get this notification, depending on the number of sensors in the surrounding area:



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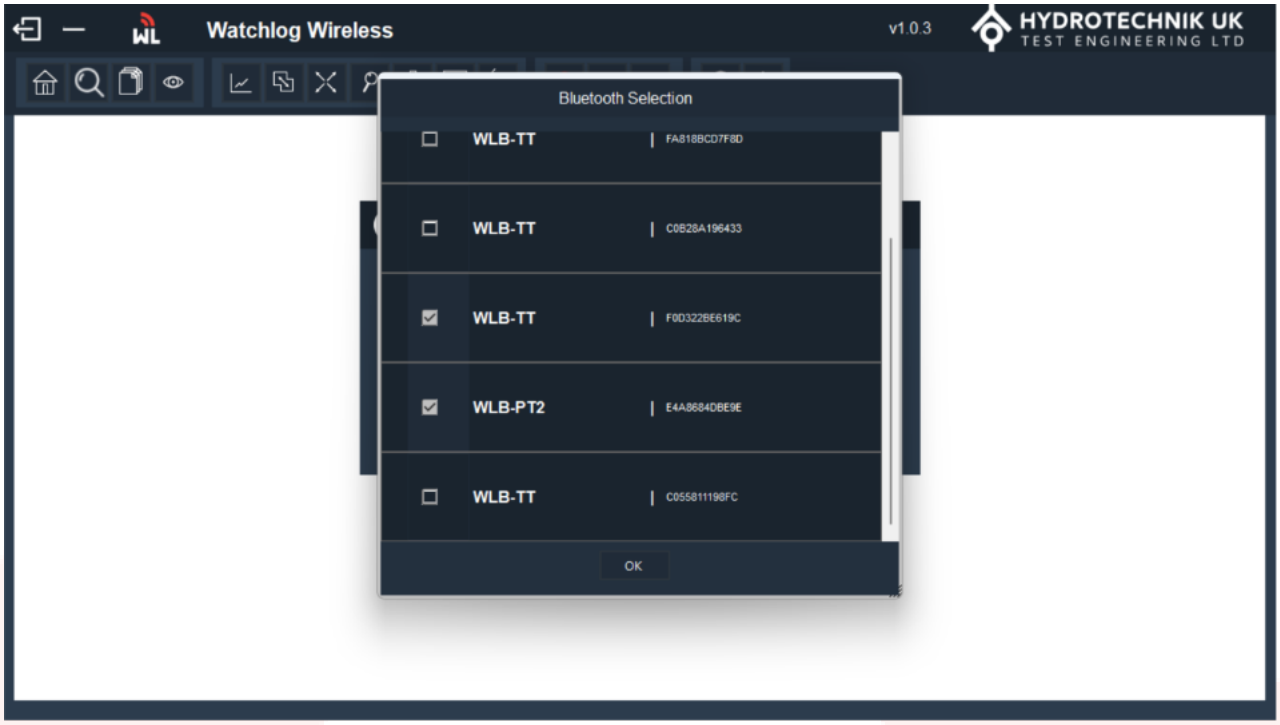
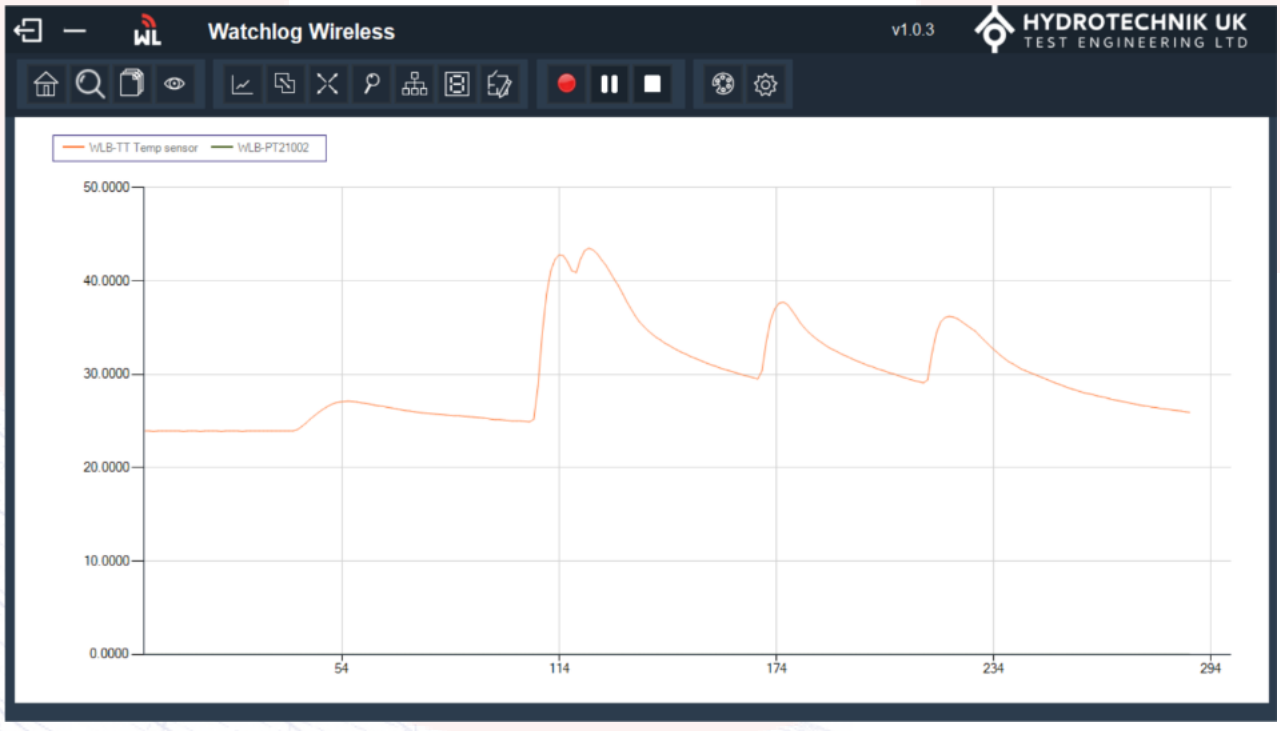
Tick the ones you wish to connect to:



The sensors will then show on the screen graphically:



Note: Connected sensors show 5 minutes worth of data initially, and then increments of 5 minutes thereafter, keeping the whole test in view

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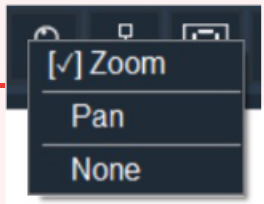
SPLITTING SENSORS INTO SEPARATE GRAPHS

Select the split button (8) to split the sensor readings into separate graphs.

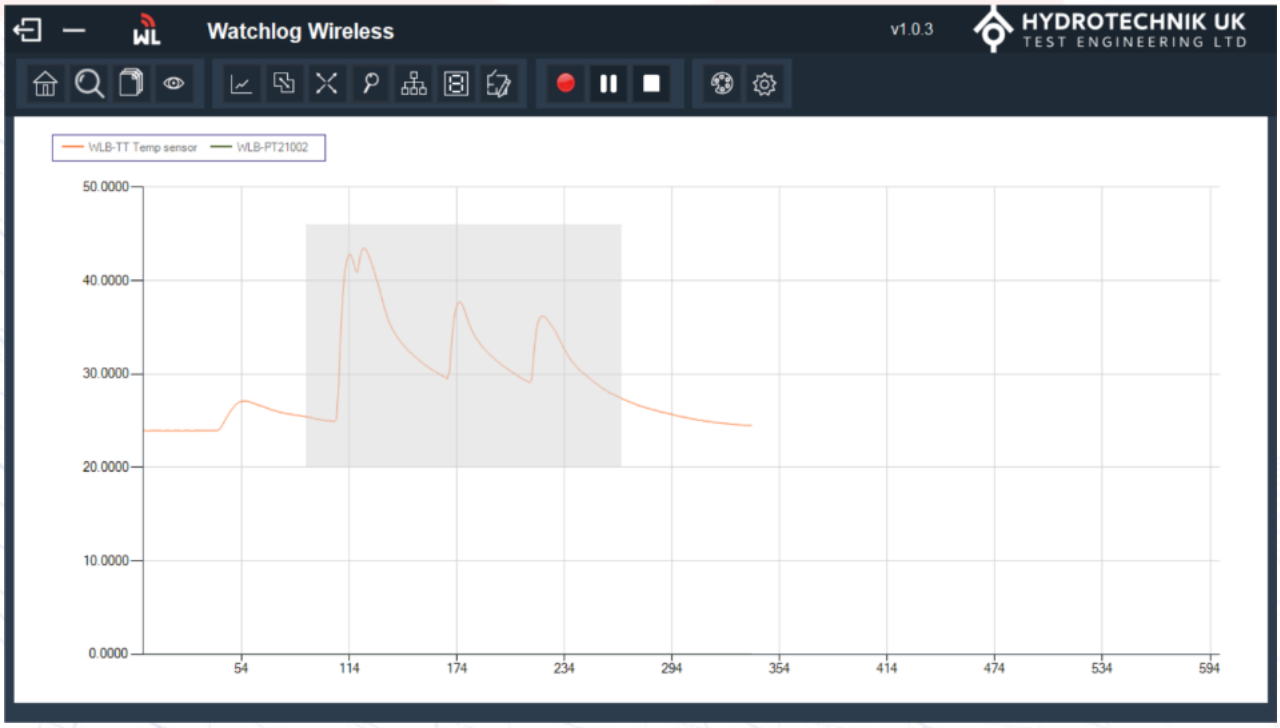
Double-click on any of these graphs to view the channel individually.

Select the graph button (7) to return to all sensors on one graph.

ZOOMING OR PANNING A GRAPH



Select the magnifying glass button (10) to select the mode, Zoom or Pan.
With Zoom selected highlight the area you wish to zoom to.



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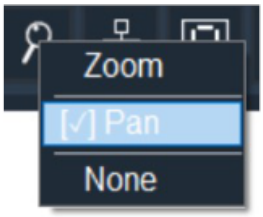
Switch to pan mode after zooming to move around the graph using the Pan option from the Zoom/Pan options (10)



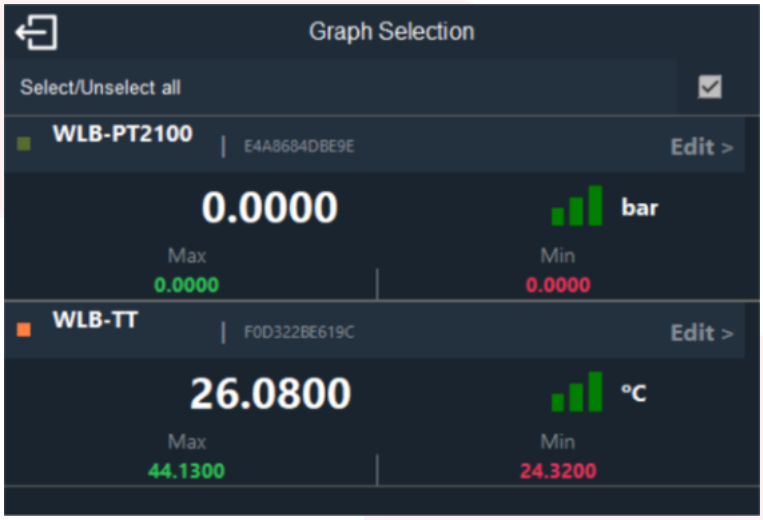
To return to the original view and exit zooming mode select the graph reset button (9).

ADVANCED OPTIONS

Graph display options

The style button (6) opens the graph selection options (shown to the right).

The "Edit >" button allows the name of the sensor to be changed. Note that this is stored permanently and will affect all tests using this sensor. The colour of the graph line for each sensor can also be changed here, as well as showing/hiding sensor graphs and enabling or disabling Min/Max values.

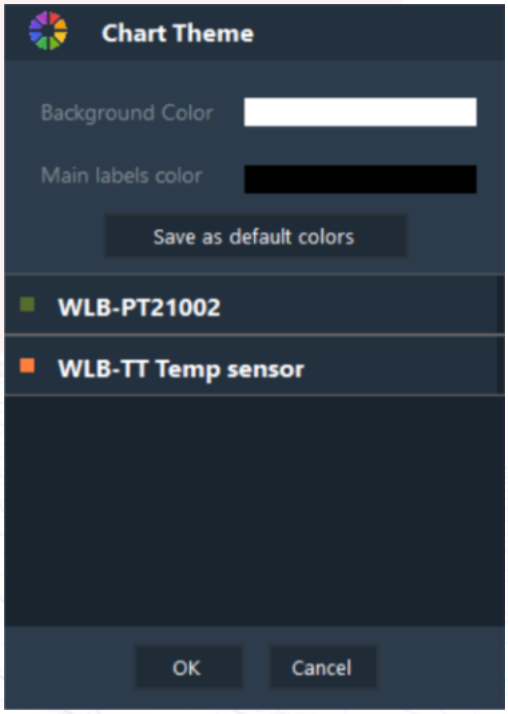


Editing connected sensors

The connected sensors button (11) shows all sensors currently connected to the software. Similarly to the graph selection settings, sensors can be renamed here. There is also the ability to Zero sensors from here.

Graph style options

The Graph Theme Settings button (17) opens the theme settings (shown to the right), which allows background colour, label colour and sensor data colours, as well as saving these settings as the default colours used on new graphs.



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RECORDING AND SAVING TESTS

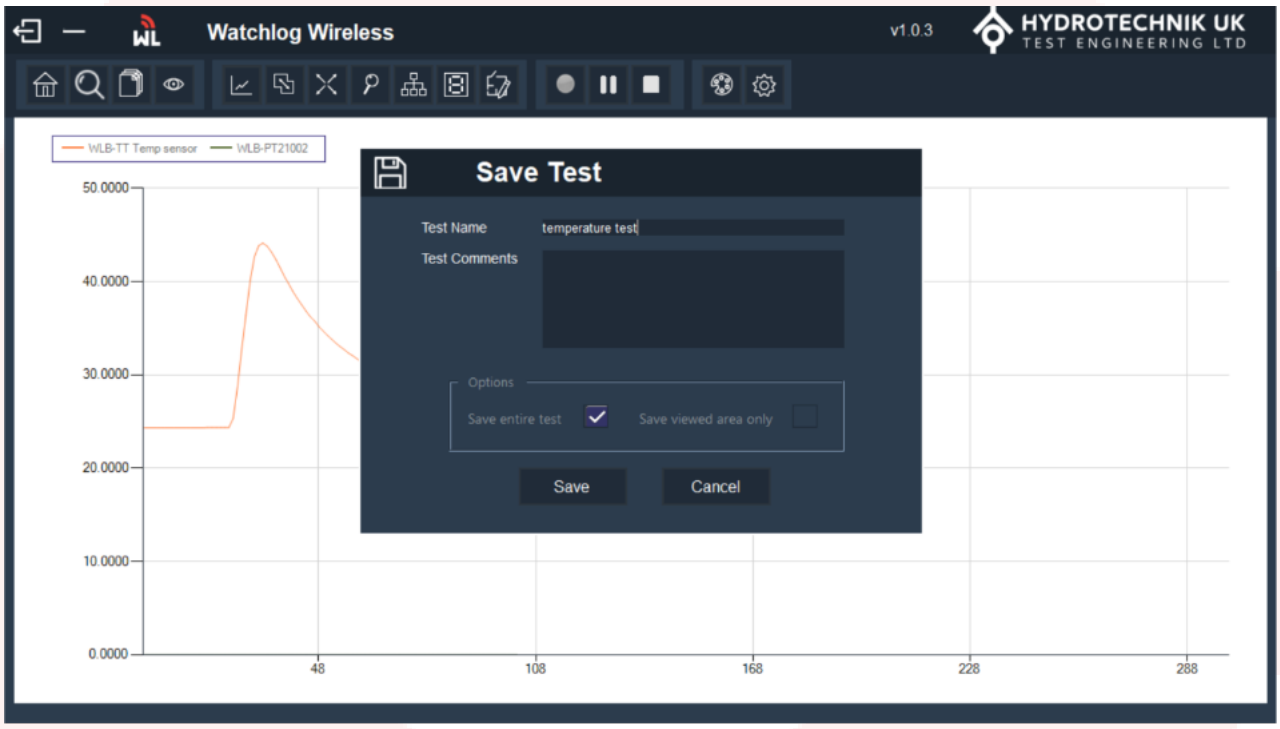
IMPORTANT NOTE:
connected sensors are shown graphically and numerically but are not stored, by default.

To begin logging data select the record button (14).

A green background will then signify that recording is in progress.

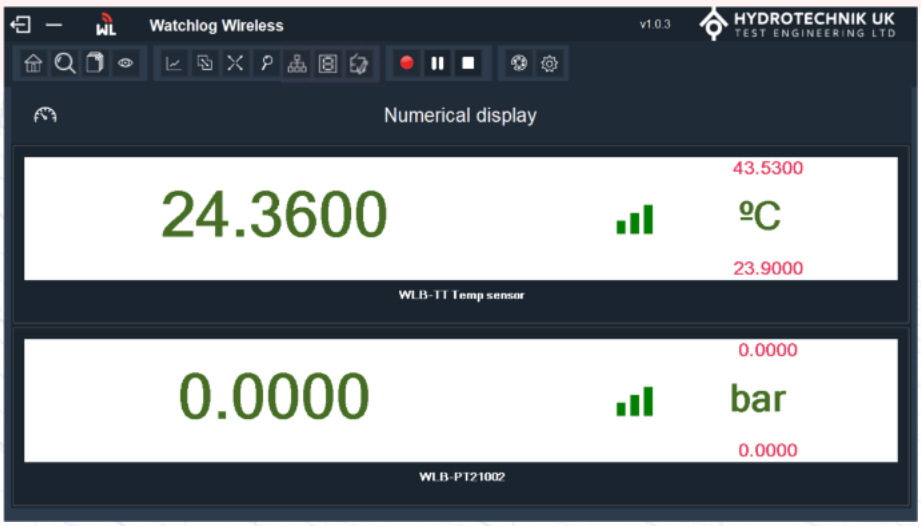
To pause or stop recording, use the Pause (15) and Stop (16) buttons.

Upon stopping a recording, you will be prompted to supply a test name. This name will be used to reference your saved test for recall at a later date.



VIEWING CONNECTED SENSORS NUMERICALLY

Connected sensors can be viewed numerically using the Numeric button (12).



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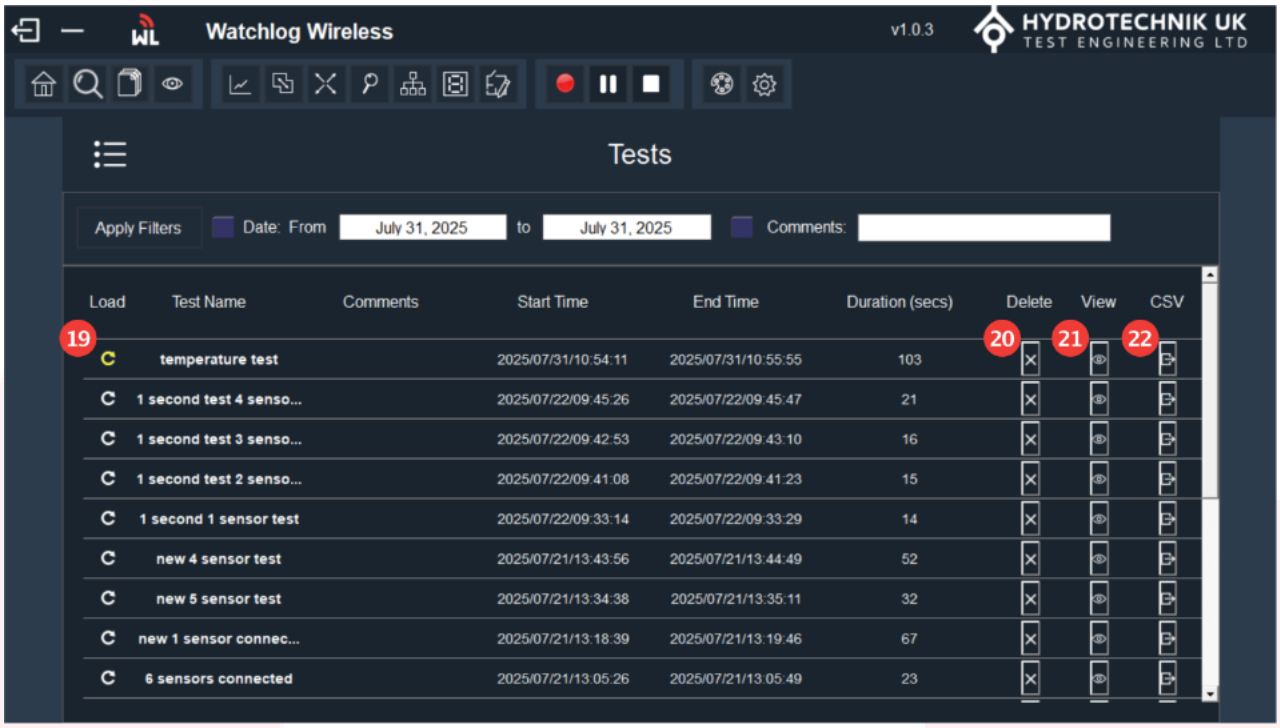
RECALLING AND PROCESS PREVIOUS TESTS

To access previously saved tests press the Tests Recall button (5).

Stored tests are listed in date order. The filter above the tests list allows the previously saved tests to be filtered based on supplied parameters, such as a test date range.



Each row in the table represents a single test. 4 actions are available for each test using the buttons provided on each row:

19 Load: Recall a test using the recall button to the left of the test name.

20 Delete: Removes the test permanently.

21 View: Exports the test to Hydrotechnik UK's Watchlog CSV Visualizer software for Windows (if installed) for further analysis and report building

22 CSV export: Allows the test to be saved using a CSV file format.

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VISUALISATION

This powerful feature allows sensors to be shown overlaid onto an image or schematic. It's a blank canvas on to which a user can add images and connected sensors to create a view such as the one below.

Note: the connected sensors show live readings.

The tools provided on the left have the following functionality:

19 Enter design mode
20 Load a previously created layout
21 Save a current layout once created
22 Show/hide properties, change colours/lines fonts etc.
23 Bring the selected item to the front, or send it to the back
24 Remove a selected item from the canvas
25 Drag onto the canvas to add text/narrative
26 Drag onto the canvas to add a background image or schematic
27 Drag onto the canvas to add a connected sensor to show live readings
28 Drag onto the canvas to draw a line, typically to pinpoint where a sensor is connected

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SOFTWARE AND MANUAL DOWNLOADS

Watchlog Bluetooth & Wireless Software

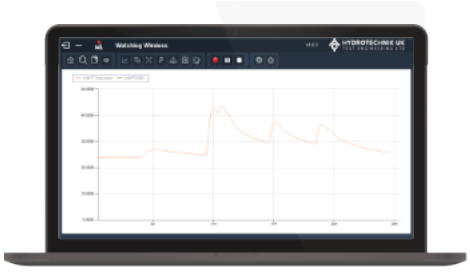
hydrotechnik.co.uk/wl-desktop

Watchlog CSV Visualizer

hydrotechnik.co.uk/csv

Watchlog Bluetooth mobile app

hydrotechnik.co.uk/wlb-app



DISCOVER MORE AT HYDROTECHNIK.CO.UK/WATCHLOG

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