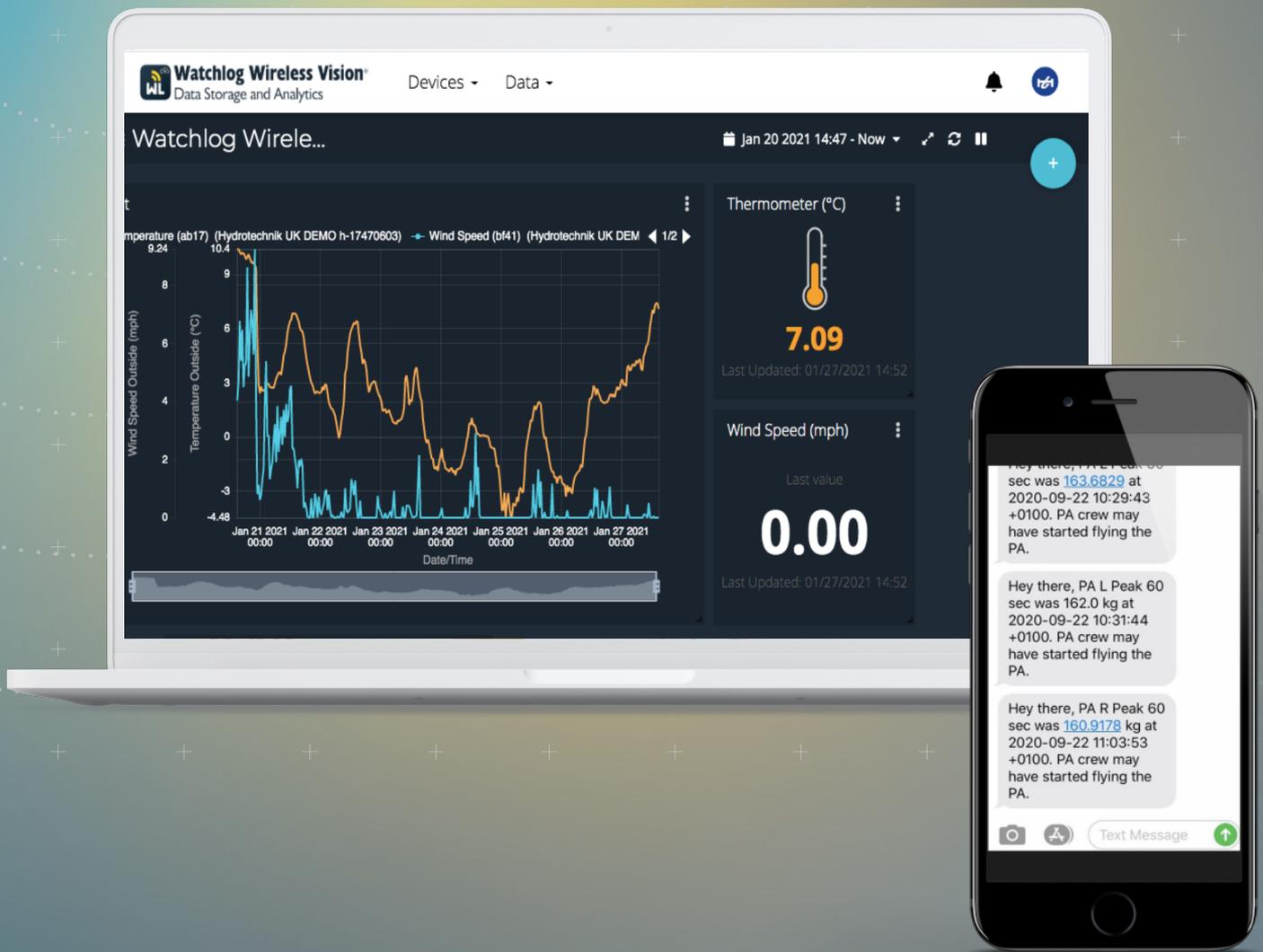


**Watchlog Wireless Vision**<sup>®</sup>  
Data Storage and Analytics

# Quick Start Guide



# Watchlog Wireless Vision<sup>®</sup> QuickStart

## Overview of Watchlog Wireless Vision (WLWV)

The WLWV Cloud platform offers browser-based access to data collected from our wireless telemetry instrumentation anywhere, at any time. Send data to the Cloud from any PC, ethernet gateway or cellular gateway hardware.

WLWV allows you to view and analyse your data, configure actions and alerts based on realtime data and unlock the value of your data through visual tools. WLWV is designed for ease. The user-friendly interface allows you to configure solutions in no time!

WLWV has several components.

1. Watchlog Wireless (WLW) Transmitter(s) transmit data from sensors (pressure, temperature, flow etc.) For more information on this section, see <https://www.hydrotechnik.co.uk/watchlog-wireless-pressure-temperature-flow-sensor-system-overview>
2. WLWV Device. This collects the data from WLWtransmitters and sends it to the cloud. There are hardware and software versions.
3. WLWV Platform. This receives and stores the data and allows management and viewing through:
  - a. Devices. Manage your devices and their variables. Create new variables based on incoming data
  - b. Dashboards. Create dashboards to help viewing and interpreting data
  - c. Events. Create events that trigger emails, text messages and more when conditions are reached

## Plans and Tiers

Use of WLWV requires an account that is paid on one of our options (monthly/yearly etc). Each cloud gateway device/installation site (hardware or software) will need a separate Plan and Tier. The Plan refers to the type of device (P1 is software, P2 is hardware ethernet or cellular etc.)

The Tier is based on the amount of data that you are going to use (T1 is the lowest, T6 is the highest). This is simplified by the fact that the devices will limit the amount of data based on the tier that you have. If you require a faster data update rate there will be less channels available to send. It is possible to change the tier without sending hardware back to Hydrotechnik. Contact us for more details. Full details and prices of plans and tiers are available on request.

## Getting going with a software device

### Install the Wireless Toolkit

If you don't already have the Wireless Toolkit installed, you can download it from our website or contact us.

## Install WLWV Software Device Plug-in

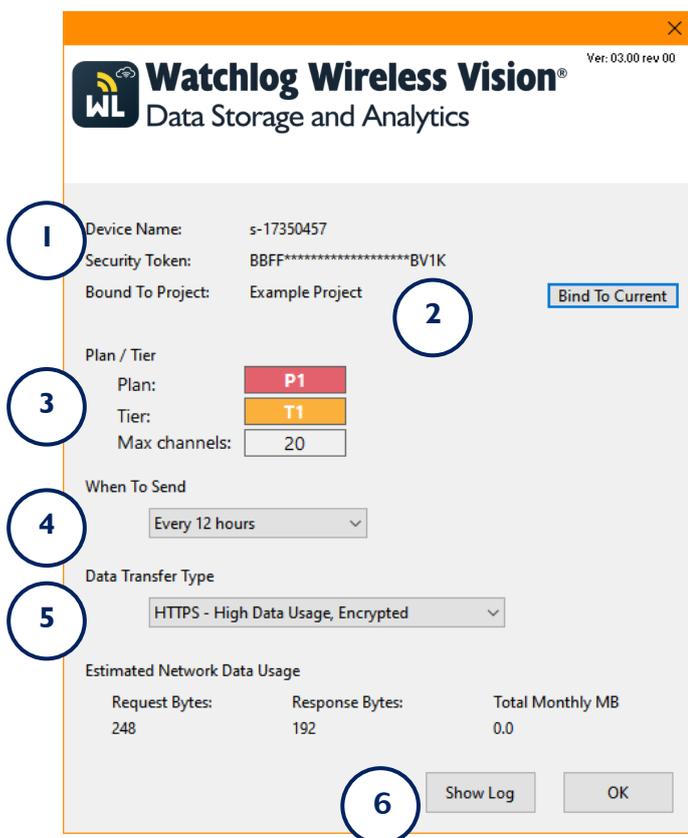
You will have been provided with a link to the WLWV plug-in for the Watchlog Wireless PC software. Download and run it and follow the on-screen instructions.

## Configure WLW PC Software project

Configure the WLW software project as required. There is a quick start guide available for this on our website in the downloads tab at <https://www.hydrotechnik.co.uk/watchlog-wireless-pressure-temperature-flow-sensor-system-overview>

Make sure that you think about all the channels required. Channels will be limited depending on the tier that you are on and the rate that you are sending to WLWV. You can select the individual channels that are sent to WLWV in the configure project window. If you select more channels than allowed then only the first amount/ number channels will be sent.

Also within the **Configure Project** window is the **Cloud** button. Click this and you will see this window.



- 1) The device name will be how this device appears on WLWV.
- 2) The name of the project that is currently set to send data to WLWV. Click 'Bind To Current' to change to the current active project.
- 3) The current Plan and Tier for this device. Max channels will be shown based on how often data is to be sent to WLWV.(4)
- 5) Allows you to choose a lower security data transfer type designed for metered connections
- 6) Opens the log window that shows communications with WLWV.

Now we can configure the WLWV part of project, including when to send and data transfer type.

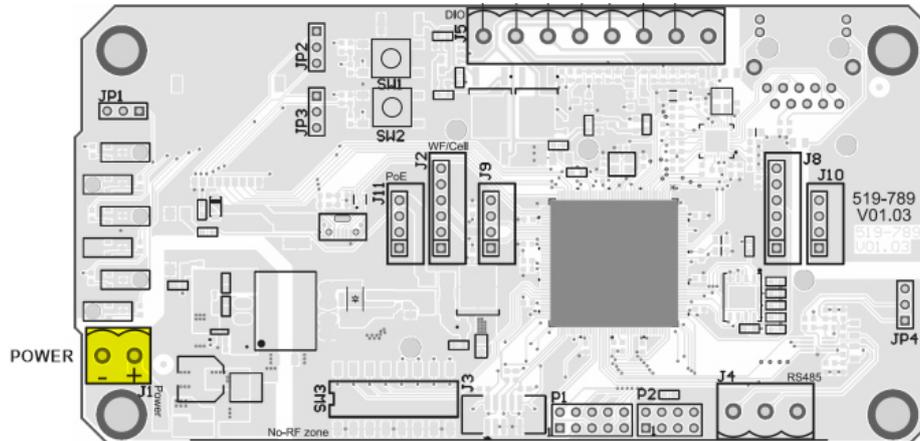
Select bind to current for only the current project to send data to WLWV. This ensures that when you open a new project it doesn't instantly start sending its data to WLWV.

Now skip to page 7 (using your account on WLWV).

## Getting going with a hardware device

### Connecting up

Remove the lid of the device and connect an 8-36Vdc powersupply to the two part connector, J1 (separate instruction supplied with cellular gateway version).



Connect the ethernet port to a network with connection to the internet.

### Install the WirelessToolkit

If you don't already have the Wireless Toolkit installed, you can download it from our website or contact us.

### Configure the hardware device

The simplest way to connect to the device is with a hard pair. Plug your WLWbase station into your PC, open the WirelessToolkit, remove power from the device, click pair on the Wireless Toolkit homepage and then re-apply power to the device. You should now be paired.

Firstly, make sure that the radio settings of your device match those of your transmitters. If you are going to use autofill then setting a group key is a good idea.

Select the inputs tab and you will see the following:

**Wireless Toolkit**

**Inputs**

**Transmitter Timeout**  
250 **1**  
Time to wait with no data before marking a transmitter as timed out.

**Cloud Delivery Interval**  
Every 5 minutes **2**  
Time between transmissions to cloud platform.

**Auto Fill Mode**  
Off **3**  
If Auto Fill Mode is activated then the list of Data Tags is built automatically as new transmitters are recognised for a period of 60 seconds after the gateway is powered on. (And also for 60 seconds after you select this setting from the toolkit)

**SensorSpace Plan:** T2  
**Max channels:** 100

**Help**  
On this tab you can set the time period between deliveries to the cloud platform. You can also choose to build a manual list of T24 Data Tags that will be delivered to the cloud or allow the gateway to construct its own list as new transmitters are detected. In automatic mode all added transmitters will just use the Last Metric but if you are in manual mode you can define the metric for each delivered value. Choose whether just the last value seen is sent to the cloud or whether all values seen since the last cloud delivery are either averaged or the minimum or maximum taken to determine the value delivered.

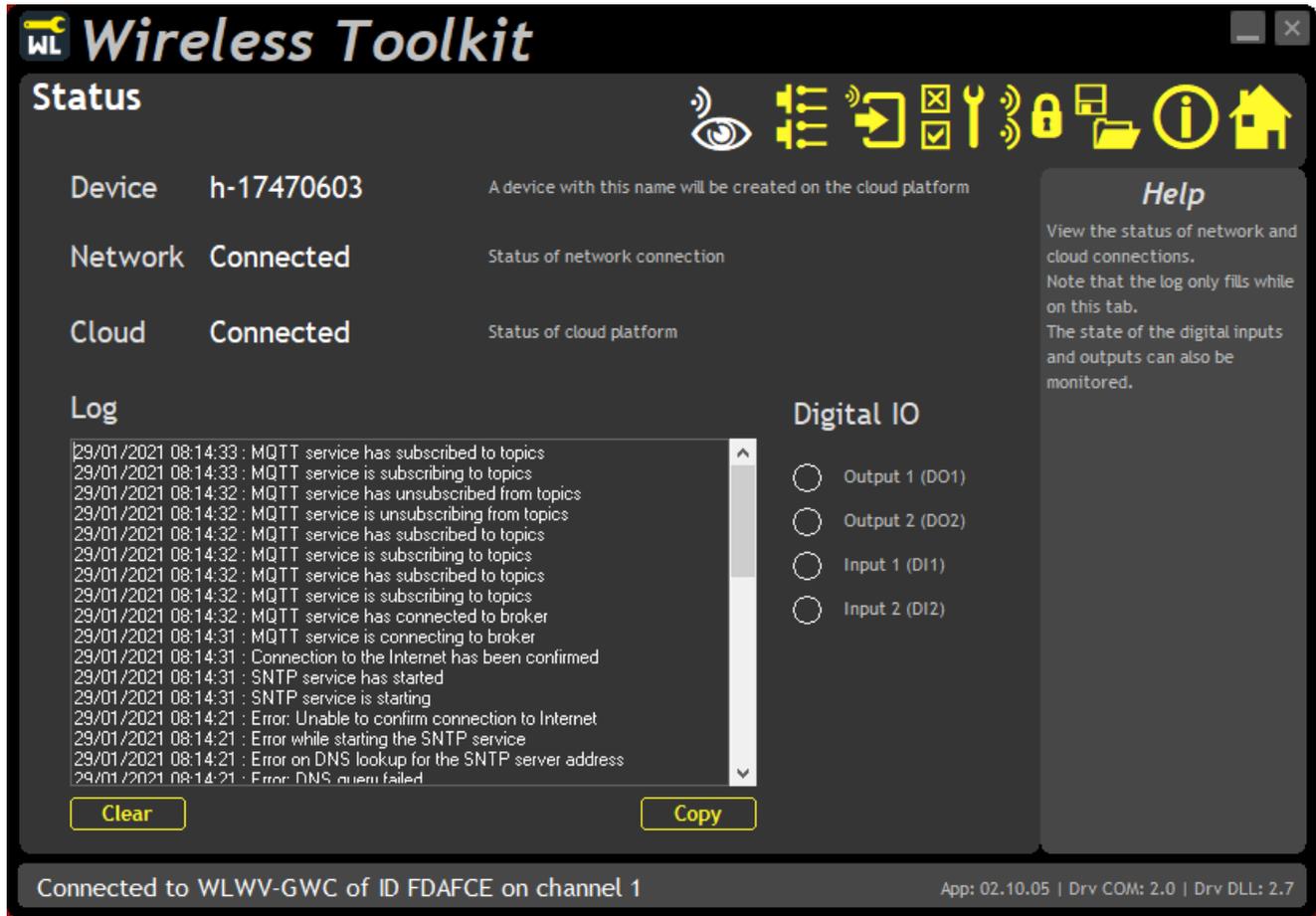
**1-10** **11-20** **21-30** **31-40** **41-50** **51-60** **7** **Clear All**

	Data Tag	Metric			Data Tag	Metric		
<b>4</b>	615	Last	<b>5</b>	<b>6</b>	960C	Last	P	X
2	95E9	Last			7	95E6	Last	P X
3	93C9	Last			8	A764	Last	P X
4	8BDB	Last			9	9600	Last	P X
5	95FB	Last			10	8C2C	Last	P X

Connected to WLWV-GWC of ID FDAFCE on channel 1 App: 02.10.05 | Drv COM: 2.0 | Drv DLL: 2.7

- 1) Set to at least three times the longest transmit interval of the linked transmitters.
- 2) This is how fast the data is sent up to WLWV. This will then set how many channels can be sent depending on your tier.
- 3) When selected this mode automatically populates the list with transmitters as the device receives them.
- 4) If not in Auto Fill Mode, you can manually enter the data tag here.
- 5) Here you can select the data that is sent to the cloud. Choose from the most recent data received or the average or maximum or minimum reading since the last upload to WLWV.
- 6) Clear the Data Tag from this list entry.
- 7) Clear the list completely.

It is useful to check your WLWV connection on this page:



This shows your device’s connection status and a log of the connection sequence.

There are LED indicators on the gateway device to allow for easy checking of operation.

	System	Green LED, slow flash- startup/connecting
	Network	Green LED, fast flash- good
	Cloud	
	T24 Traffic	
	T24 Error	Red LED, off- good
	System Error	Red LED, any flash- error

Full details are available in the manual but generally:

## Using your account on Watchlog Wireless Vision

### Logging in

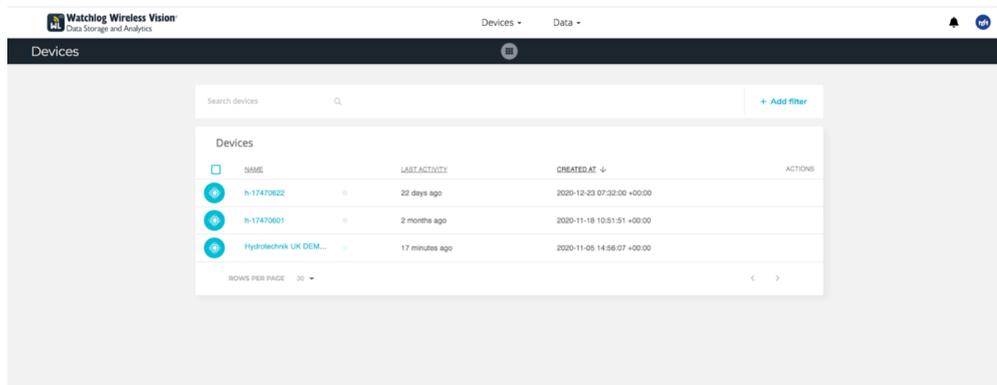
Use a browser (Chrome is recommended and **MS Internet Explorer is unsupported**) to navigate to [wireless.watchlog-vision.com](https://wireless.watchlog-vision.com)

There are three levels of user. You will have been provided with usernames, passwords etc.

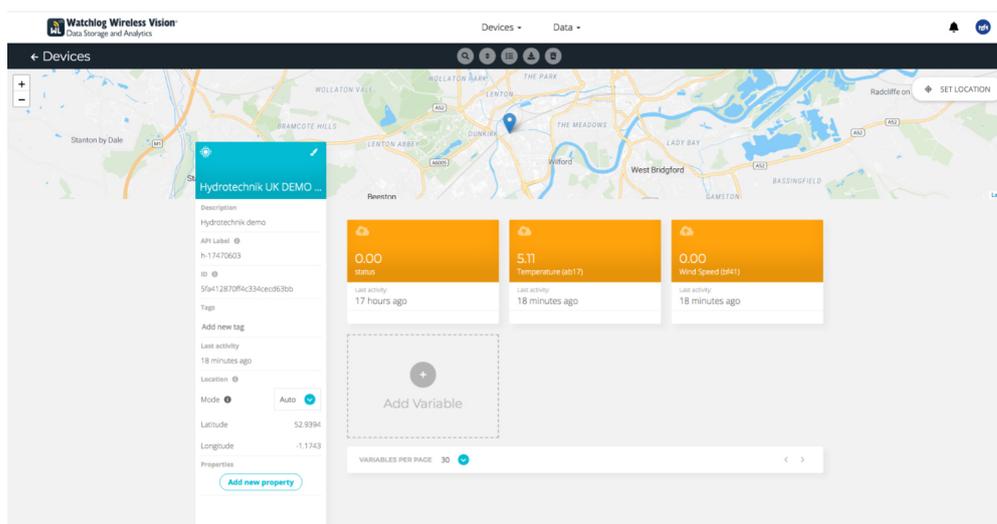
- **Manager**
  - Managers can do everything except creating, editing or deleting users and devices. To do that, contact Hydrotechnik.
- **Explorer**
  - Explorers can create, edit, view and delete dashboards and events. They can view the devices, variables and values, but can't edit or delete them.
- **Dashboards**
  - These users can only see all the dashboards of their organisation but cannot change them.

## Check Device

If you have manager or explorer status, click on the **Devices** tab (at the top). Your device(s) should be here. (You will need to have started the WLWV plugin sending data in the Watchlog Wireless software first, see above). Click on the device you want to check.



You will now see the variables that are delivered by this device.



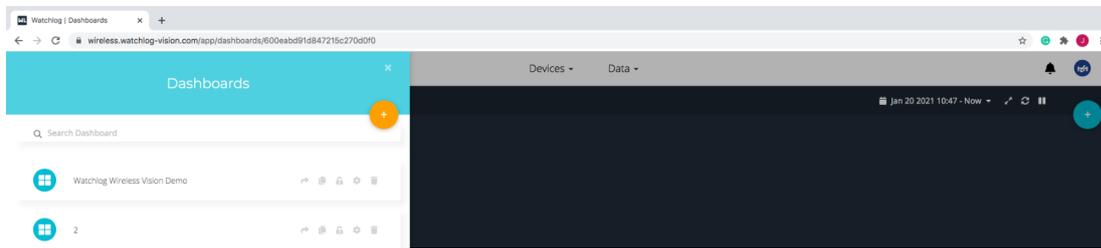
In the above picture the orange variables are delivered by the device and the green ones are 'synthetic' variables which are made by the user. They can take various forms including sums or averages of variables.

To start with it's a good idea just to check that the variables that you expect are there. There will be an extra variable called **Status**. This variable allows you to check on the status of all channels in the Watchlog Wireless Software. The higher the number shown by Status (0-100), the more severe the problem. This is decoded by using a dashboard widget.

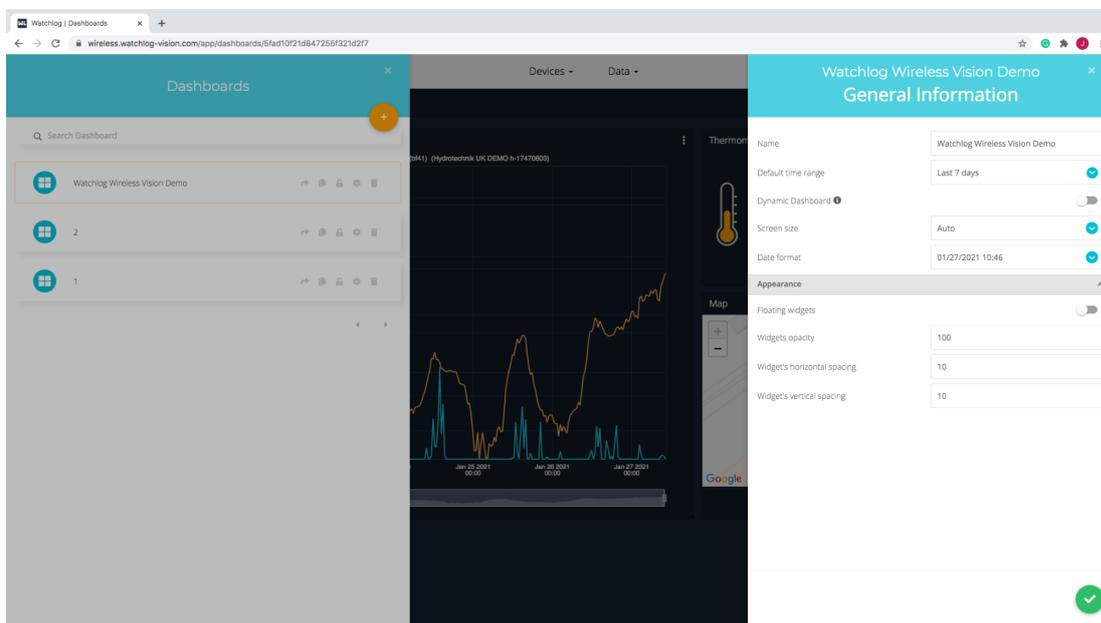
**If you delete any variables you will permanently lose that data.** If the variable is being delivered by a hardware or software device then it will be re-created the next time data is delivered (But data that existed before the variable was deleted will not be re-created).

## Create a Dashboard

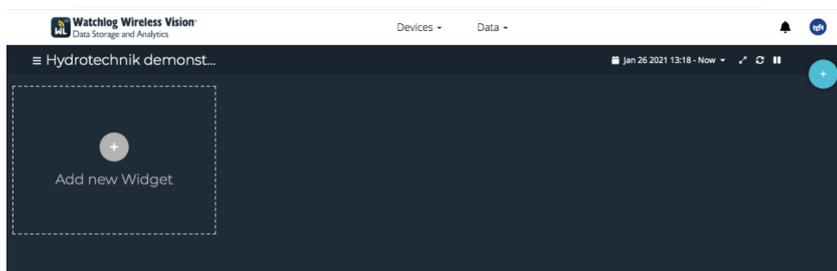
Dashboards allow easy viewing and analysis of your data. Click on the **Dashboards** tab (Data drop down menu) then click the 'window' icon (3 lines in the top left). This will show any already created dashboards.



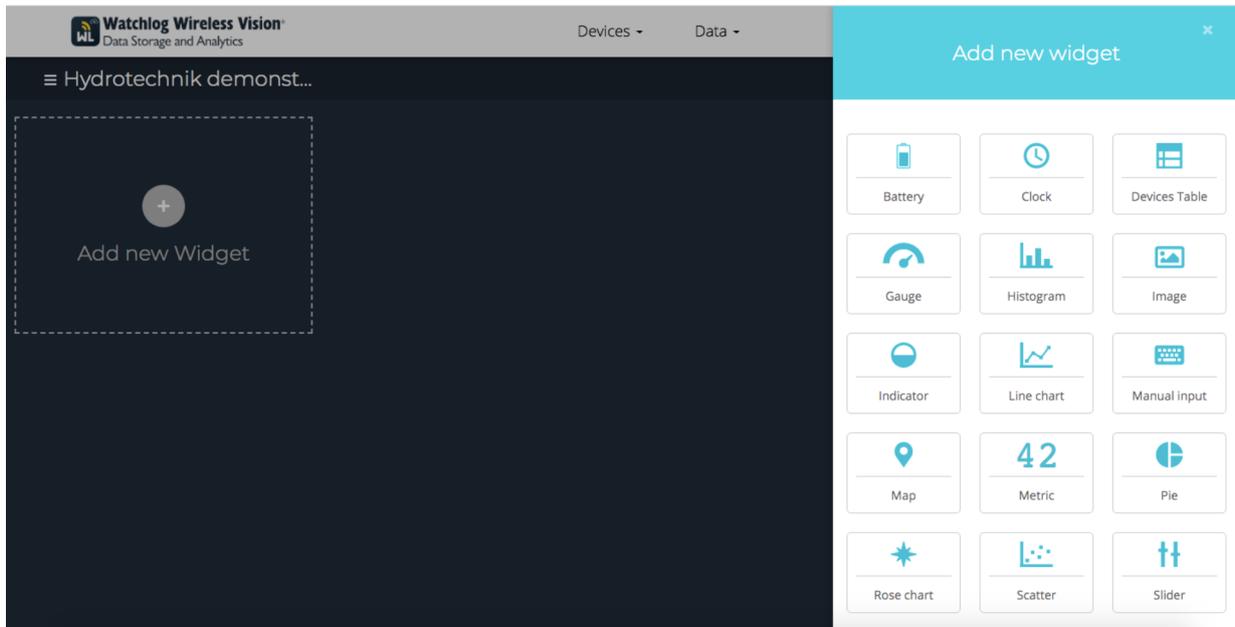
Click the 'plus' sign to create a new dashboard (click the settings symbol next to an existing dashboard) to edit it. Name it and click the green 'tick'. You can also change other settings but this will give a good start.



Now click on your new dashboard from the list on the left. You will see a page similar to this.

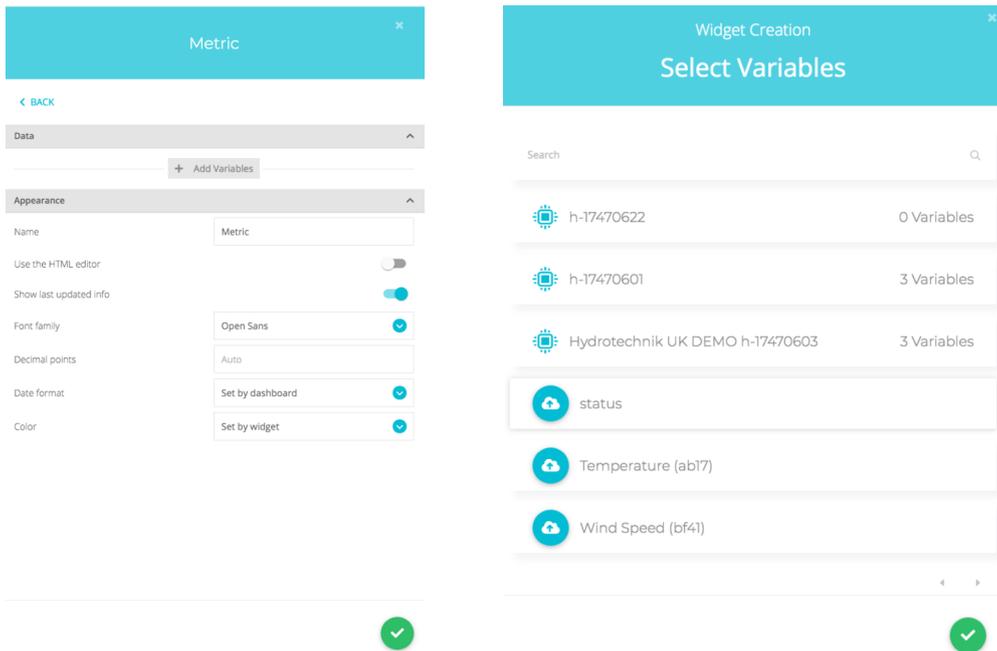


Widgets are different methods of displaying the data. Click the 'plus' sign in the top right corner to create a new widget.



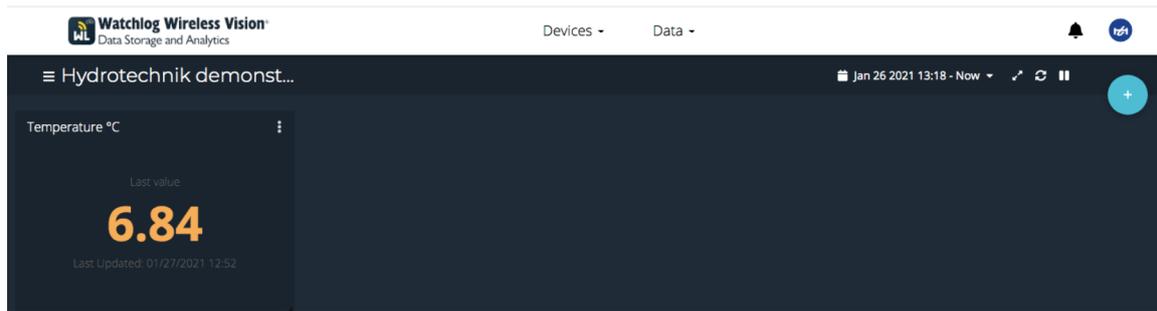
For this guide we will look at two simple tiles: **Metric** and the Line Chart.

## Metric



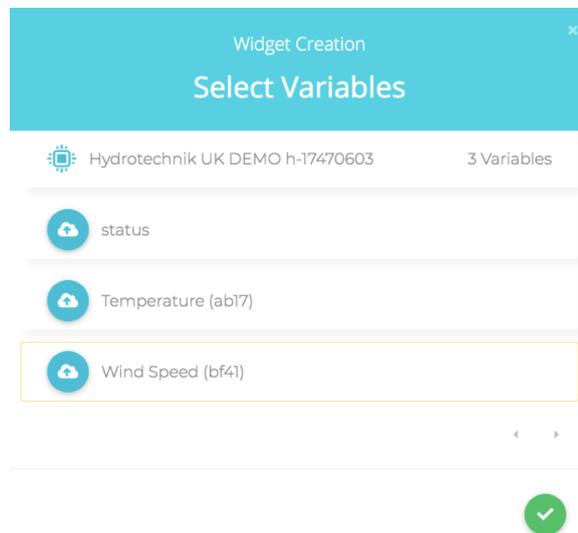
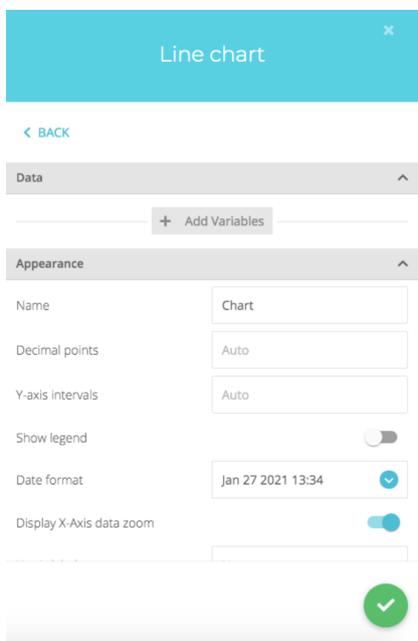
When you select Metric widget, the above left window will appear. Name the widget and click Add Variables to choose which variable you would like to display, shown in the above right image. (You can choose from any of your available variables in your devices).

You can choose various other options but probably the most useful is the 'Show last updated info' which lets you know when the last data for this widget/transmitter arrived.

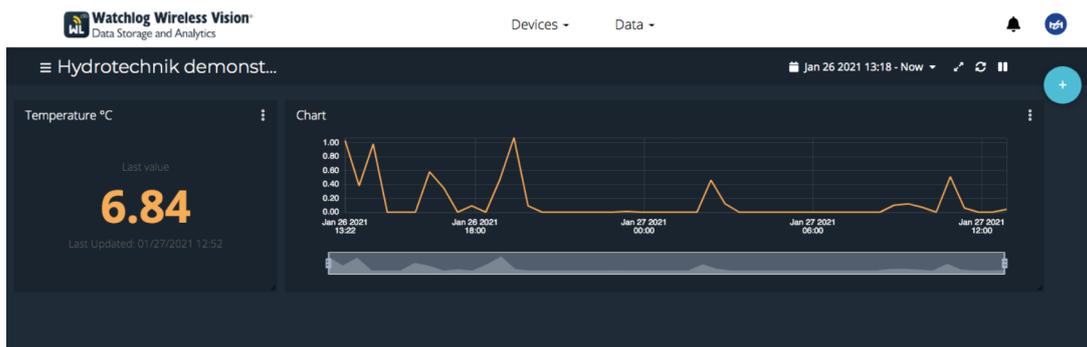


We can resize the widget by grabbing the bottom right corner. Move the widget to where you want on the screen by clicking and holding the top of it. Clicking the three dots in the top right of the widget allows you to **Download** the widget's data, **Share** the widget via aweblink, **Edit** the settings or **Delete** the widget. Note: deleting the widget does not delete the data, this is fed from the Device(s).

## Line graph

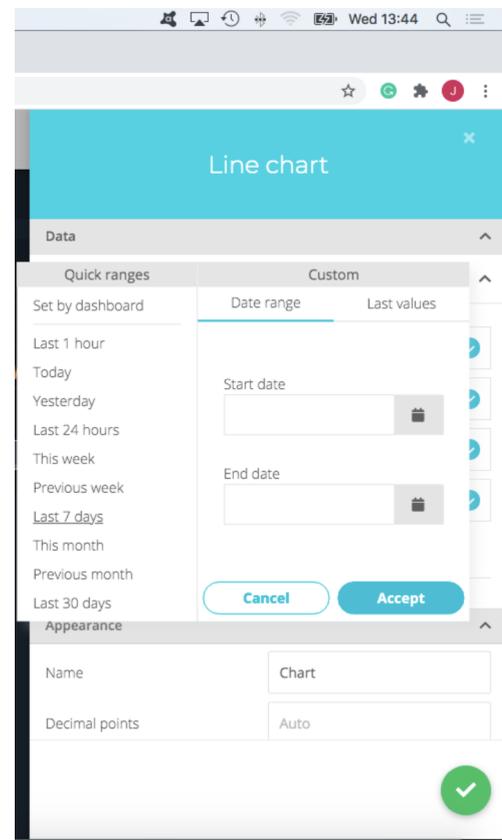
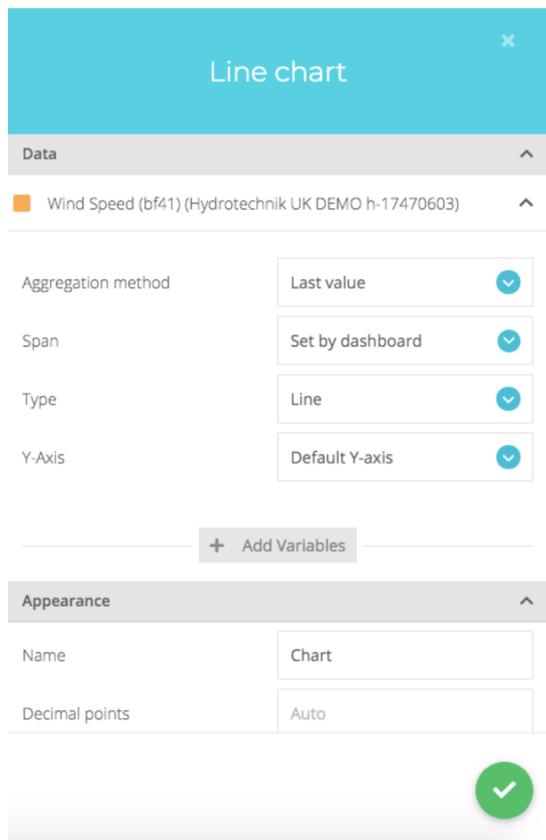


The process of creating a Line Chart is the same as the Metric Tile. You select the device or multiple devices that you want to monitor, name the widget and set the variable you want to measure.



In this case you can select multiple sensors to show on one graph or have individual graphs for the data.

You can also determine the length of the historical data show on the graph.

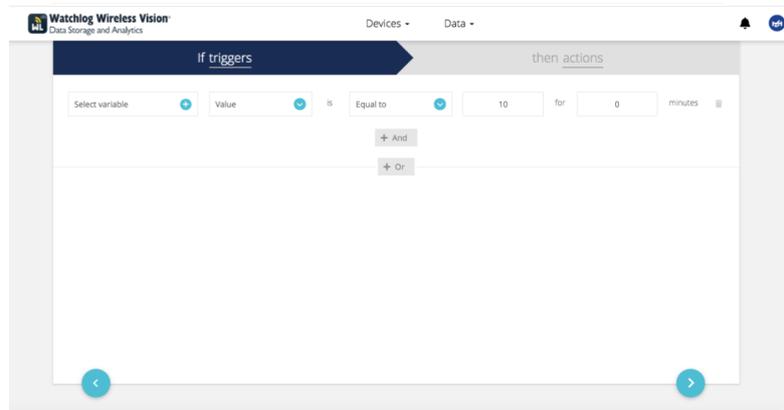


Press the drop down arrow next to Span which will open up a selection window as shown above in the right image and choose a range. To add another variable/transmitter press the add variable button below the one you have already created and repeat the process of adding a variable/instrument.

## Create an Event

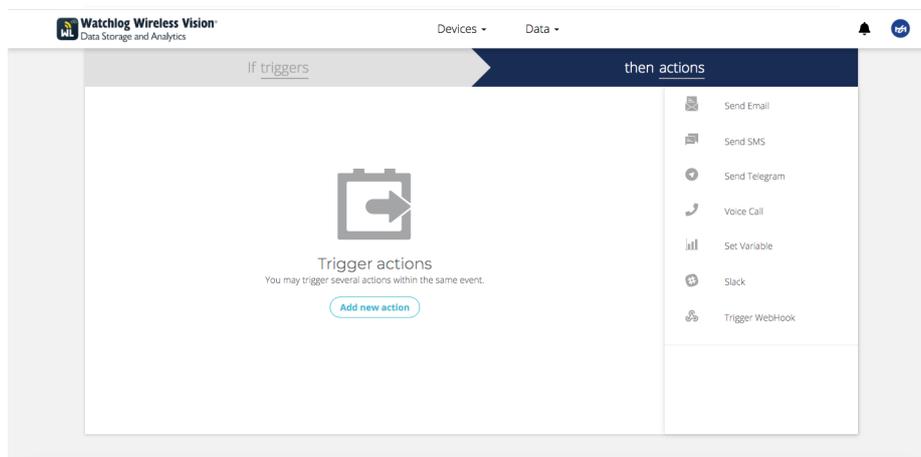
Events allow you to set triggers for text messages and emails etc based on variables/set points..

Go to the **Events** tab by clicking the Data drop down menu along the top menu bar and press on events and then click on the 'plus' sign in the top right hand corner or the create event button if you currently don't have any events setup.

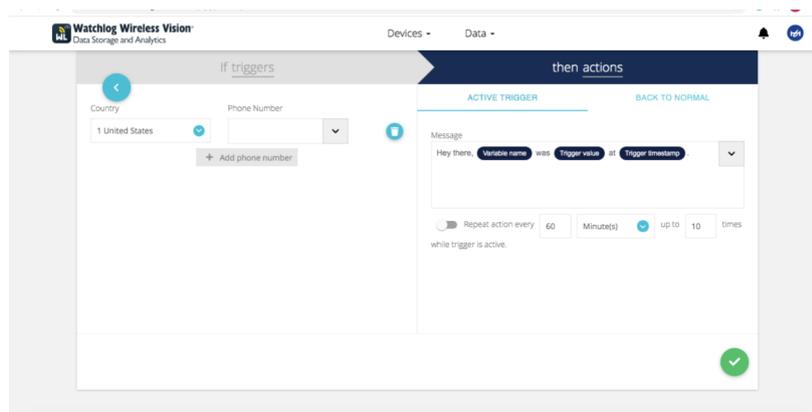


This page lets you set up the **trigger(s)** for the event. You select the variable and how it triggers. You can have multiple and/or triggers. Click the right arrow to move to the next page.

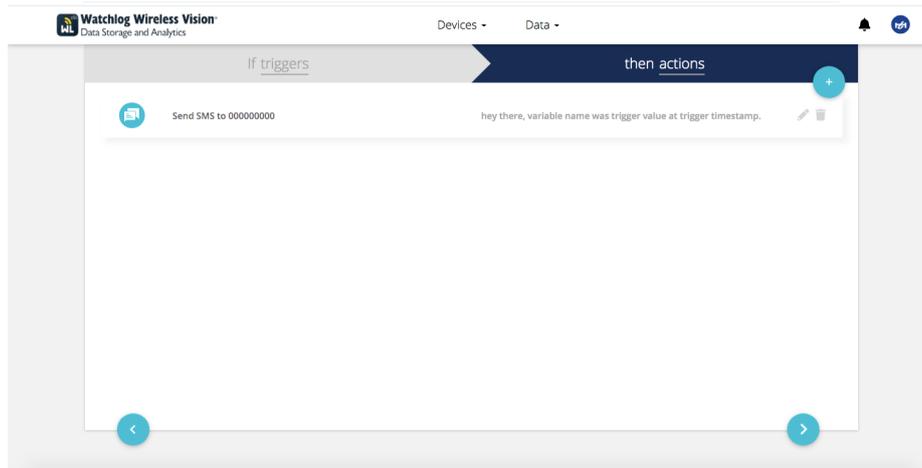
Click the plus sign to create an action type or the add new action and select the type of alert you want.



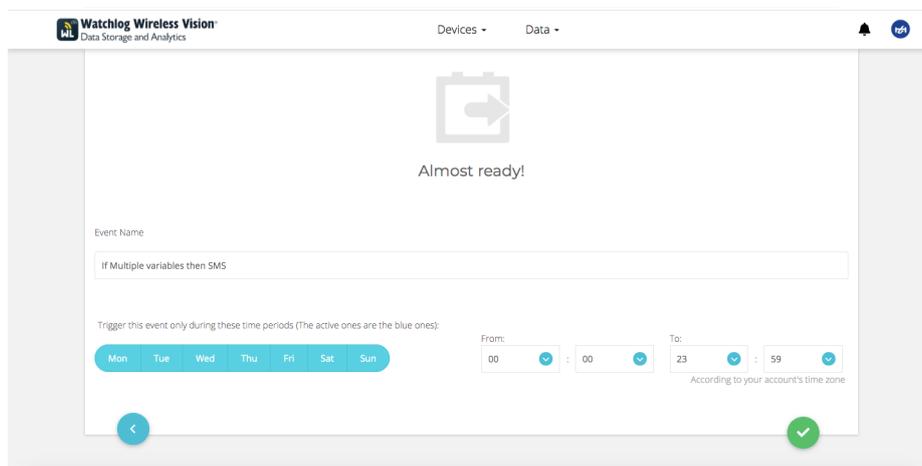
Here you select the action type then fill in the relevant parts. This includes setting the message contents using text and the **Custom Fields** to reference variables and times etc.



Click the right arrow again to see a summary:



Clicking the pencil will allow you to edit the event. Click the right arrow again when you are happy.



Now you can set when you want the event to trigger and name it. Click the tick when you are happy.

The event will now be in the Events list.



You can hover over various parts in the summary and view the event log. It is also possible to edit from here and disable the event.