

vanwaltDataHub

What is the *vanwaltDataHub*?

A powerful, flexible system of electronics, conveniently packaged in a heavy-duty enclosure which performs as a hub to collect and store data securely from deployed environmental and other sensors. The datalogger is capable of simultaneously connecting to sensors even if they use different protocols.

Who designed the *vanwaltDataHub*?

Designed and developed in-house by the Van Walt team. Manufactured in the UK.

Which type of sensors can connect to the *vanwaltDataHub*?

The *vanwaltDataHub* can connect to many different sensors, for example, ModBus; SDI 12; Pulse; Relays; Analog and Digital.

How many sensors can I connect to one *vanwaltDataHub*?

As standard the DataHub is supplied with 6 connector glands, however by using a 'splitter' / junction box several hundred sensors could be connected to each *vanwaltDataHub*.

What parameters can I monitor with a *vanwaltDataHub*?

Some examples are: Water Level; Water Flow; Water Quality (conductivity, pH, ORP, DO, Turbidity, Temperature and more); Floating Hydrocarbons; Soil Moisture; Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD) and Total Organic Carbon (TOC) data, atmospheric and weather parameters and many more.

How do I get the data collected by the *vanwaltDataHub*?

Data can be collected from the DataHub manually using an industrial SD card or via GPRS (2G, 3G or 4G); Radio or Satellite.

How can I read the data collected?

Data files are in a .csv format for easy import into a spreadsheet.

1. Data can be uploaded directly from the logger to the *vanwaltCONNECT** server which makes it viewable on your desktop.
2. Data can be forwarded directly from the logger to your own server by FTP.
3. Data can be downloaded to your laptop from the logger through a cabled usb connection.

**vanwaltCONNECT* is the remote interface for the *vanwaltDataHub*. Data collected by the DataHub can be accessed from your desktop or mobile and shared between users to whom permission is given.

How often can I sample?

You can set this to match your requirements. Sampling frequency is however dependent on the sensor. In some cases this could be as frequently as several times per second. In most cases this will be from just a few seconds, to hours or days.

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How often can I upload data from site to my desktop/mobile?

In principle, if you have sufficient power and signal, data can be uploaded as often as you require it. In practical terms, mostly this means from every 30 minutes to hourly or daily uploads.

What is the battery life of a vanwaltDataHub?

This will depend on many factors including the sensor type, the quantity of sensors on the system, data collection intervals, data upload frequency, signal strength. Battery size, type and solar array options should be discussed prior to installation so they are matched to the requirements.

How secure is data collected using the vanwaltDataHub?

Collected data are stored on non-volatile memory. The internal memory is backed up to an internal micro-sd card. Data forwarded to our server are stored, backed-up and maintained by Rackspace, the number one managed cloud company. <https://www.rackspace.com/en-gb>

Can I leave the vanwaltDataHub onsite?

The electronics of the vanwaltDataHub are enclosed inside a fully water proof, IP rated, heavy duty aluminium enclosure which can be mounted on a wall, post or surface.

Can I set alarms if I have a vanwaltDataHub?

Yes, using the vanwaltCONNECT interface you can set up alarms.

Do I need to go onsite to change the settings on the vanwaltDataHub?

No, using the vanwaltCONNECT interface you amend and adjust sensor settings, data collection intervals and upload times.

How big is the vanwaltDataHub?

The enclosure is 260 mm long; 120 mm high and 160 mm wide. Weight including the batteries is 6.6 kg.

What sort of service level agreements can you offer with the vanwaltDataHub?

We offer the vanwaltDataHub under a [Logger for Life scheme](#) and also as a 'Keep-On Going' Service Level Agreement.

How will I know if the vanwaltDataHub will work at my location?

As a stand-alone data logger the vanwaltDataHub will work in any location. In addition, and unlike some other telemetry systems, the vanwaltDataHub is not solely reliant on a mobile phone signal as you can use our radio or optional satellite alternatives. The options should be discussed prior to installation so they are matched to the requirements.