






Quick Reference Guide

Diver-Link Preparation and Setup

Introduction

This guide outlines how to setup your remote monitoring project using Diver-HUB, Diver-Office, Diver-Link and Divers.

The following icons are used:

-  Warning
-  Tip/suggestion
-  Reference to a manual

The setup consists of 11 steps:

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Setup Diver-HUB

Step 1 – Create an Account

Create an account for your company on the Diver-HUB web portal: www.diver-hub.com.

📖 [Diver-HUB Getting Started Guide](#), section 2.1 Request Access.

Step 2 – Login

After receiving a confirmation e-mail from Van Essen Instruments, login to Diver-HUB with the username and the temporary password.

💡 If you have not received an e-mail within one working day, please check your spam or contact Van Essen Instruments.

📖 [Diver-HUB Getting Started Guide](#), section 2.2 First Login

Step 3 – Create a Project

Create a project in Diver-HUB.

📖 [Diver-HUB Getting Started Guide](#), section 3.2 Create a Project.

Step 4 – Setup the Project

Import the project meta data in Diver-HUB using the Diver-HUB templates. Download templates from the Diver-HUB (.xlsx files). Fill out the templates and save as Excel and as CSV files. Import the CSV files in Diver-HUB.

💡 For Diver-HUB to show hardware information import at least template number 1, 2, 3. For Diver-HUB to automatically generate water levels (TOC) import at least template number 1, 2, 3, 4, 5, 6.

💡 Use the same name for *monitoring_point_name* and *diver_location_code* unless you have a good reason not to, for example when you made a mistake with programming the Diver.

💡 Use the same name for *location_name* and *monitoring_point_name* unless you have a good reason not to, for example with nested wells.

💡 When using the Diver-Link baro logger data for barometric compensation fill in *monitoring_point_name-B* in the *baro_for_compensation* column.





📖 [Diver-HUB Getting Started Guide](#), section 3.3 Import Project Data.



Diver-Link Preparation

Step 5 – Configure the Diver-Link Hardware



Insert the SIM card, 1 or 2 batteries and desiccant in the Diver-Link and connect the external antenna (if applicable).

-  Carefully note the polarity of the batteries: these must be inserted in parallel, facing the same direction. Polarity is indicated on the bottom of the battery holders.
 -  Ensure no wires are pinched between the lid and the base when closing the box.
 -  A Diver-Link with an external antenna (DN402, DN422, DN402-3, DN422-3) will not transmit data if the external antenna is not connected to the Diver-Link.
-  [Diver-HUB Getting Started Guide](#), sections 2.2.1 Opening the Diver-Link, 2.2.2 Inserting a SIM Card, 2.2.3 Inserting the Battery, 2.2.4 Inserting the Desiccant and 2.2.5 Closing the Diver-Link.



Step 6 – Configure the Diver-Link in Diver-HUB



Configure the Diver-Link in Diver-HUB. Go to **Equipment Management > Diver-Link Configuration**.

-  This will configure all Diver-Links (transmission interval, time of transmission) for a given project in Diver-HUB.
-  [Diver-HUB Getting Started Guide](#), section 4.2.2 Diver-Link Configuration.

Setup Divers




Step 7 – Import Diver-HUB Project in Diver-Office

Import Diver-HUB project in Diver-Office program by using your Diver-HUB credentials. Go to **Project > Diver-HUB > Import Project Data**

-  Once the Diver-HUB project has been imported into a Diver-Office project, the same Diver-Office project must always be used to program any Diver for that project, also after installation. For example, when reprogramming or replacing a Diver. A new import from Diver-HUB is required when changes have been made to the Diver-HUB project. For example, when new locations/monitoring points were added.
-  [Diver-HUB Getting Started Guide](#), section 4.2.3 Diver Configuration.

Step 8 – Program the Divers

Program the Divers using Diver-Office. A Diver can be programmed with a USB Reading Unit or with a Smart Interface Cable connected to a DXT Cable and Diver

-  Select the Monitoring Point name from the Monitoring Point dropdown list to avoid mistakes.
 -  Make sure to also start the Diver or program a future start date.
-  [Diver-HUB Getting Started Guide](#), section 4.2.3 Diver Configuration.



Deployment

Step 9 – Connect the Equipment

Connect the DXT Cable and Diver to the Diver-Link and mount the Well Top Fixation.

- 💡 It is recommended to mount the Well Top Fixation to the cable in the office. Under these circumstances you can make sure that your Diver will be installed at the correct depth.
- 💡 Please consider depth of water-table fluctuation and pressure range of Diver:
www.vanessen.com/calculator-tools/cable-length.
- 💡 Make sure all connectors are tightened properly, do not over-tighten.
- 💡 Keep good record of which hardware set goes to which monitoring point.
- ⚠️ Diver-Link Triple (DN4xx-3): connect only Divers belonging to the same Diver-HUB project. Connecting Divers from different Diver-HUB projects to the same Diver-Link Triple results in data delivery errors.

📖 [Diver-Link Product Manual](#), section 2.6 Deployment.

Step 10 – Activate the Diver-Link

Activate the Diver-Link with the magnetic key.

- 💡 Hold the magnet on the ACTIVATE position for more than 1 second; until the top LED indicator turns green.
- 💡 If the activation process does not return 4 green LED indicators, then retry the activation up to 2 times before further troubleshooting.

📖 [Diver-Link Product Manual](#), section 2.6.1 Activating the Diver-Link.

Step 11 – Check the Hardware Information in Diver-HUB

Check Diver-HUB to see if the hardware information is displayed correctly.

- 💡 Check the Equipment information on the Monitoring Points widget details page.

More information

- 📖 Diver-Link Product Manual:
<https://www.vanessen.com/wp-content/uploads/2019/09/Diver-Link-DN4xx-ProductManual-en-1.pdf>
- 📖 Diver-HUB Getting Started Guide:
<https://www.vanessen.com/wp-content/uploads/2019/09/Diver-HUB-Getting-Started-Guide-en.pdf>