Staal. instruments

QUICKSTART GUIDE

Type: WIRELESS LEVEL RADAR
Order code: WLR05-2G/001

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1 Activate and login to account

Use provided link to activate your SenZ2 account.

Use your username and password to log in to the secure portal: https://www.staalportal.com

Go to "Account settings" to set your account preferences and if needed add new admins, users or viewers.

2 Select or add your asset

Click on "Assets" on the left.

Option 1: Select "Asset". Use filter or list sort options to find your asset quickly.

Option 2: To add a new asset click on "+ Add asset". Select your "Asset type", fill in the name, the asset case, asset dimensions and optionally select "Asset tags"and click "Add asset" (see also SENSOR CONFIGURATION GUIDE)

Type: WIRELESS LEVEL RADAR
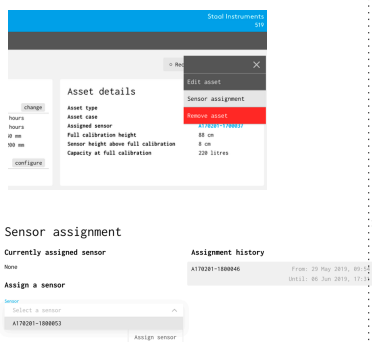Order code: WLR05-2G/001

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3 Assign sensor to your asset

Go to your Asset and click the gear icon (⚙) in upper right.

Click "Sensor assignment" and select the right sensor from the drop-down list with "device ID's".

Here you'll find all of your sensors that are not attached to any asset yet.

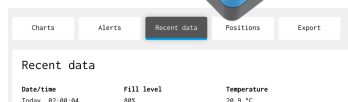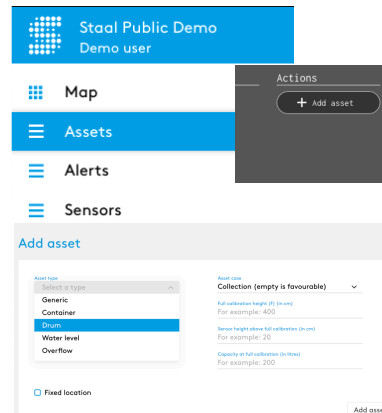When changing a sensor, you can also unassign the sensor here.

4 Activate the sensor

Use the magnet to swipe along side the back side of the sensor.

The LED indicator on top of the sensor will light up for +/-20 seconds. (note: LED indicator can be hard to notice in daylight)

Click on "Recent data" to check if a measurement is received by the Staal portal.

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5 Install the sensor

The sensor is standard equipped with the multi-pupose baseplate supporting 4 installation options:
a) slide & lock to bracket
b) stick to surface (3M tape)
c) drill 2 holes and bolt, or
d) use rubber strap-on system

Make sure the sensor is installed level and it has a free field of view with an opening angle of 8°.
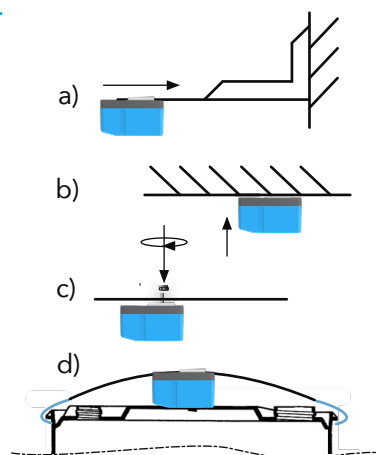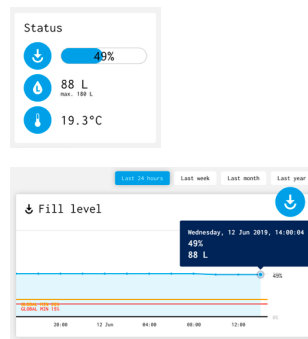
6 Check sensor performance

By sliding the activation magnet alongside the sensor it is forced to carry out one measurement and sent it right away.

In the portal look up the latest measurement by clicking the asset, the sensor graph and select "Last 24 hours" history view.

If measurement represents real situation you are good to go!

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1   Required dimensions for sensor configuration

To configure the sensor 3 dimensions of the asset are required (asset examples: tank, silo, resevoir, etc):

1. F = Full calibration height. The height in cm between 0% and 100% fill level of the tank.

2. S = Sensor height in cm above full calibration (100% fill level).

3. C =Total capacity of the Asset at 100% fill level in liters.
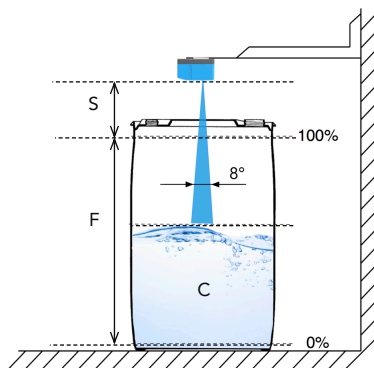
2   Fill in the asset dimensions

Go to Assets in the main menu, select an asset, click on the gear icon (⚙) and on "Edit Asset".

Fill in the dimensions measured above and save this configuration by clicking on "Save asset"

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3   Calculate the required measurement range of the sensor.

The measurement range of the sensor can be set to decrease the chance on false measurements.

Detections outside of the range are ignored by the sensor. It will always try to find the best measurement inside of the configured range.

- Minimum required range = S
- Maximum required range = S + F
Note: take a litlle margin in to account.

4   Configure measurement range

To configure the sensor you will need 3 dimensions of the asset (tank, silo, resevoir, etc):

1. F = Full calibration height. The height in cm between 0% and 100% fill level of the tank.

2. S = Sensor height in cm above full calibration (100% fill level).

3. C =Total capacity of the Asset at 100% fill level in liters.

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5   Configure Alerts

There are 2 ways to configure alerts:
1. Asset alerts - these only apply to the concerning Asset.
2. Global alerts - these apply to all assets with the concerning tag.

To set an Asset Alert navigate to the Asset and click on the Alerts tab: Choose "Edit Alerts", select the type of alert, the threshold type and importance. Then click "Add"

You cannot edit an alert, only delete and add a new one.

6   Configure intervals

The measurment and communication intervals can be set in the menu as the measurement range of the sensor.

When adjusting the intervals please take in to account that the battery-life is influenced by the set intervals.

If you want to use short intervals, please consider the "Temporary intervals" functionality.

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