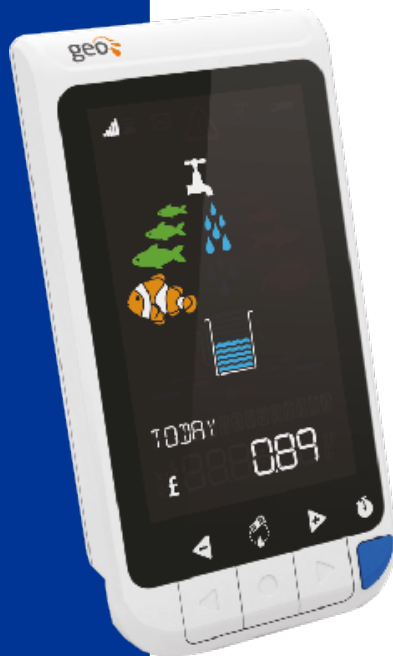


Installation and user manual

GEO Ensemble Water Display



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How to use Water Display Pairing Tool

Water Display Pairing Tool is used for connecting Ensemble Water Display with up to 4 smart water meters from Kamstrup and for configuring the display with regard to language, prices and currency.

Water Display Pairing Tool consists of:

1. Software that can be downloaded at https://www.kamstrup.com/da-dk/services-and-support/_support_/downloads#/ensemble-water (choose **Read more > Software > Water Display Pairing Tool**).
2. USB dongle (is installed when the software has been installed).

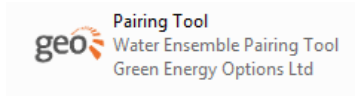
How to install Water Display Pairing Tool – a quick guide

Before the display can be configured, the required drivers must be installed:

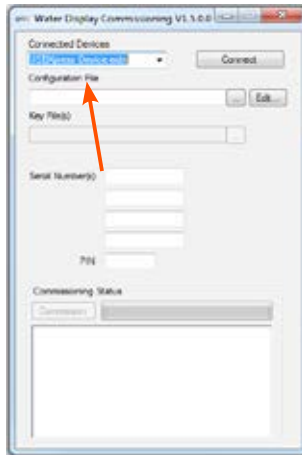
1. Download the software.
2. Unpack the ZIP file to your local drive.
3. Go the "Driver" folder
4. Open the file "USBXpressInstaller_x86" for 32-bit systems or "USBXpressInstaller_x64" for 64-bit systems (computers with Windows 7 or newer)
5. Follow the instructions on the screen.

How to connect smart water meters to Ensemble Water Display

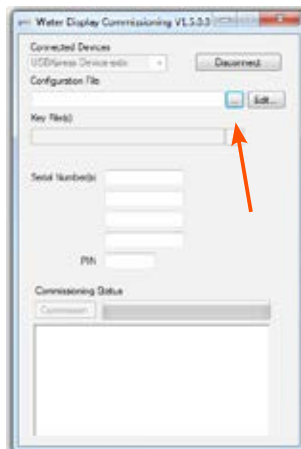
1. Open the file "Pairing Tool".



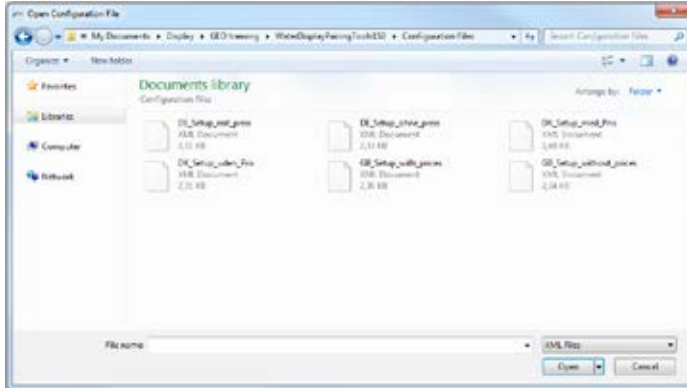
2. Insert the USB dongle in a free USB port.
3. Select "USBXpress Device extn" under **Connected Devices** and click **Connect**.



4. Click the ... button under '**Configuration File**' to retrieve the configuration file on the display. The configuration file contains predefined basic settings for language, various tariffs and displays.



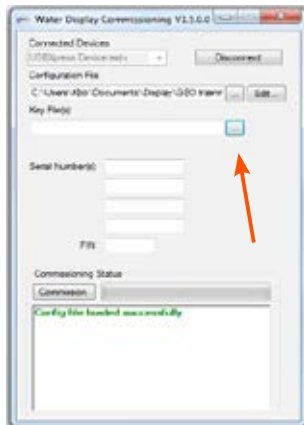
The following options appear:



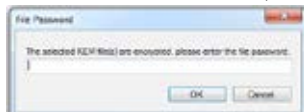
The program writes "Config file loaded successfully" when the configuration file has been loaded into the program.

The basic settings can easily be changed. See "How to change the basic settings in the Ensemble water display", p. 9 for further information.

- Click the ... button under **Key File** to retrieve the meters' encryption keys. You have received this encryption file from Kamstrup in connection with the purchase of Wireless M-Bus water meters. It is also available on My Kamstrup.



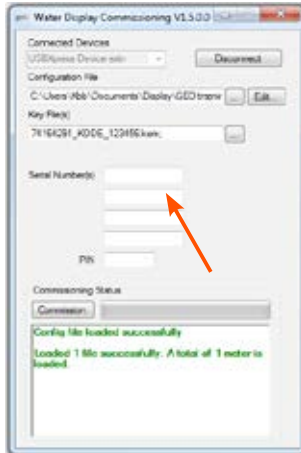
- Enter a password in the window **File Password**. The password is for the KEM file and is delivered from My Kamstrup.



The encryption file is encrypted, and you must enter a password to be able to import the meters' encryption keys into the program. This password is the same as the customer number indicated in order confirmation.

The program writes "KEM file loaded successfully. A total of x meters are loaded" when the encryption file is loaded into the program.

7. In the **Serial Number(s)** fields, enter up to four meter serial numbers of the meters that are to be connected with the display.

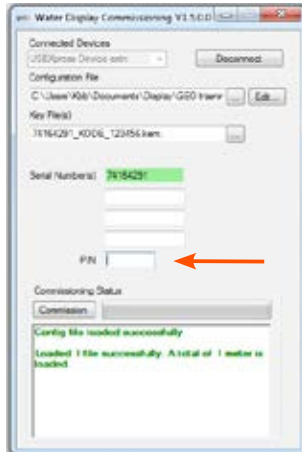


The text in the field turns green if the meter is present in the imported encryption file. If the meter is not present in the imported encryption file, the text turns red.

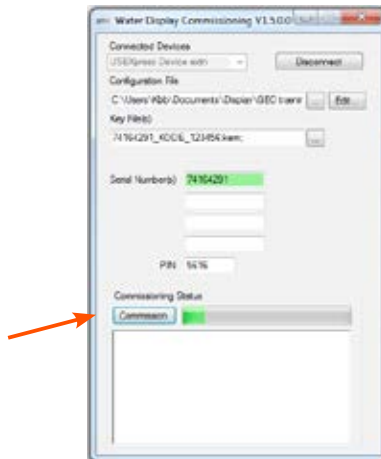
Now the display can be connected to the selected meter, and to connect the correct display with the correct meter, a PIN code is required from the display.



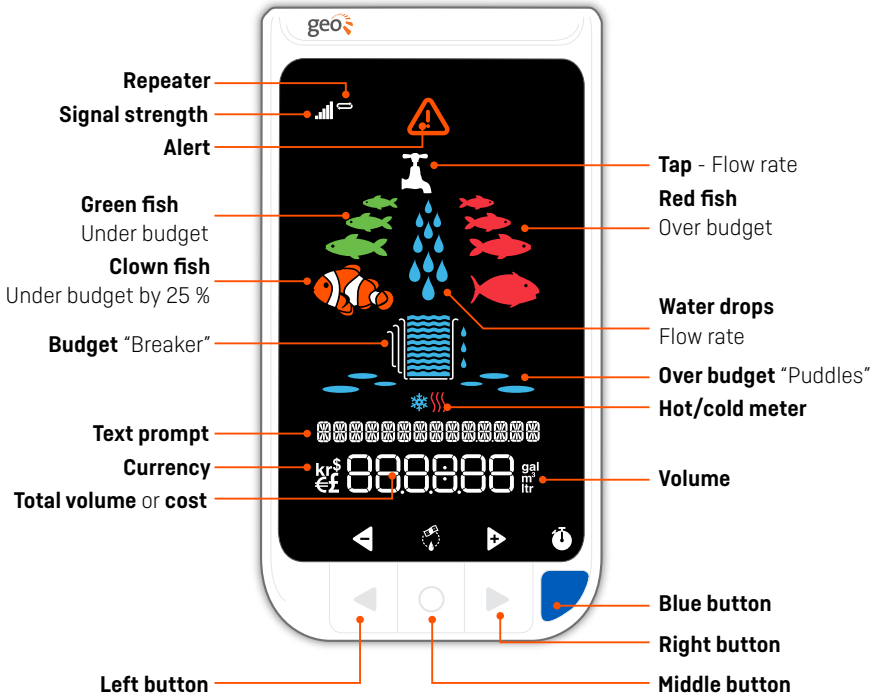
8. Supply the display with power via the included adapter.
The display shows “COMMISSION?”.
9. Press one of the keys on the display, and a random number of 2 to 4 digits is shown.
10. Enter this number in the field **PIN**.



11. Click **Commission**, and a connection between the meter and the display is established.
The window below appears, and the display now shows “Commission OK”, which means that the configuration is completed.



- Remove the power supply shortly from the display, connect it again, and the display and the meter establish connection within five minutes.
When the connection has been established, the signal strength [see **Signal strength** in the figure below] is shown in the upper-left corner of the display:



How to reset the display

If the display is connected to a wrong meter, the display must be reset after which connection can be made to the right meter.

Reset the display in the following way:

- Remove the power supply from the display.
- Hold down the right and left arrow keys [see "Right Button" and "Left Button" in the picture above] at the same time as the power supply is reconnected.
- The display now shows "FACTORY RESET?". Press the left arrow button on the display for "Y" to confirm.

The display is now reset and ready to be connected to the right meter.

Follow this guide from the beginning to connect the display to the meter.

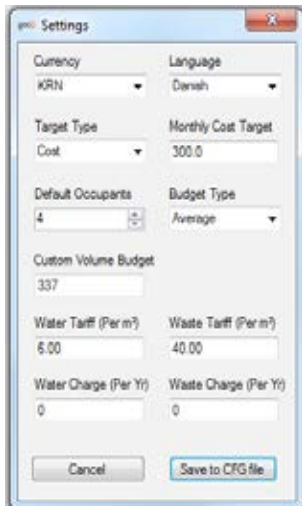
How to change the basic settings in Ensemble Water Display

The basic settings in Ensemble Water Display are easily changed via the configuration file which you selected when you created a connection between the water meter and Ensemble water display.

1. Click **"Edit"** next to the selected configuration file:

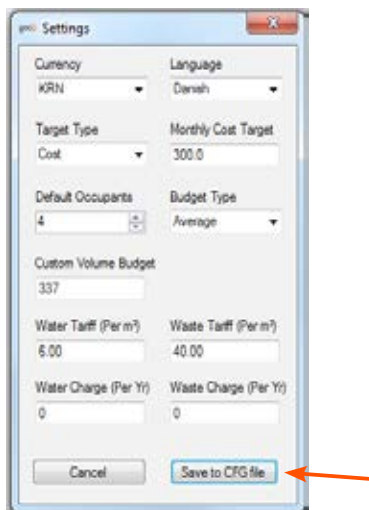


The following display appears:



You can now change the above basic settings by entering the values directly in the single fields.

- When you have changed the basic settings, press **“Save to CFG file”**, and the changes are saved in the configuration file:



- The configuration file is now ready for being transferred to the display. Set the display to Commissioning mode, see 'How to reset the display', and follow the instructions on p. 4-8.

Overview of basic settings

In the following, the various basic settings and their possible values are explained:

Display_Currency

Here, you can select which currency to show in the display.

Select between British Pound (GPB), American Dollar (USD), Danish Krone (KRN) and Euro (EUR).

Standard setting from Kamstrup in the "DK_Setup" configuration file: KRN

Display_Language

Here, you can select the display language.

Select between English (GB), Danish (DK) and German (DE).

Standard setting from Kamstrup in the "DK_Setup" configuration file: GB

Display_Target_Type

Select if the consumption is to be shown in m³ (Volume) or costs (Cost).

Standard setting from Kamstrup in the "DK_Setup" configuration file: Cost

Display_Monthly_Budget

Here, you can enter the average monthly consumption in Danish currency with two decimals after the comma.

Standard setting from Kamstrup in the "DK_Setup" configuration file: 300.00

Display_Occupants

Here, you can select the number of occupants in the household.

Select between 1 - 5 occupants.

Standard setting from Kamstrup in the "DK_Setup" configuration file: 4

Display_Budget_Type

Here, you can select a predefined profile for the daily water consumption:

USER LOW (low daily consumption) in whole litres per day: 145

USER AVERAGE (average daily consumption) in whole litres per day: 271

USER HIGH (high daily consumption) in whole litres per day: 430

CUSTOM (is selected if the exact consumption is known – consumption is entered under "Display_Custom_Budget_Value").

Display_Custom_Budget_Value

Here, you can enter the exact daily consumption in whole litres per day: 337

Water_Tariff

Here, the water price per m³ is entered.

Setting from Kamstrup in the "DK_Setup_med_pris" configuration file: 6.00

Setting from Kamstrup in the "DK_Setup_uden_pris" configuration file: 0

Waste_Tariff

Here, the waste water tax per m³ is entered.

Setting from Kamstrup in the "DK_Setup_med_pris" configuration file: 40.00

Setting from Kamstrup in the "DK_Setup_uden_pris" configuration file: 0

Water_SC

Here, you can enter any fixed yearly taxes related to the water supply.

At present, this feature is not supported in the EU.

Standard settings for UK:

29 £

Waste_SC

Here, you can enter any fixed yearly taxes related to the waste-water disposal.

At present, this feature is not supported in the EU.

Standard settings for UK:

83 £

Troubleshooting

1. Restart the program
2. Insert the dongle again
3. Press Connect when the dongle is visible in the Connected Devices field

Follow the instructions in “How to connect smart water meter with Ensemble Water Display” on page 4.

