

SETTING UP THE BUDGET

BUDGET

The entry of price is per month, and the entry of volume budget is per day. The entered budget values form the basis of the display of the beaker content and the fish (red, green and striped fish).

Setting up price budget:

Press the middle button for at least 4 secs. The display shows **"BUDGET"**. Press the middle button again, and the display shows **"BUDGET COST"**. Press the middle button again, and the display shows **"MONTH COST"** and a price of e.g. 38.23 euro. Press the middle button again, and the cost starts blinking. Now, the cost can be adjusted with the buttons **▶** and **◀**. When the correct cost appears, confirm it by pressing the middle button. Press the right button until the display shows **"EXIT SETTINGS"**. Press the button to confirm and finish.

Setting up volume budget:

Press the middle button for at least 4 secs. The display shows **"BUDGET"**. Press the middle button again, and the display shows **"BUDGET COST"**. Press the right button until the display shows **"BUDGET LITRES"**. Press the middle button, and the display shows **"OCCUPANTS"** and a number of 3 occupants. Press the middle button again, and the number starts blinking. Now, you can adjust the number of occupants with the buttons **▶** and **◀**. When the correct number appears, press the middle button to confirm it. Press the right button until the display shows **"USER AVERAGE"**. Press the middle button, and **"USER AVERAGE"** starts blinking. Use the right/left buttons to select your daily consumption between one of the 3 predefined consumption patterns.

USER AVERAGE (average consumption): 342 litres/day (with 3 occupants in the house)

USER HIGH: 559 litres/day (with 3 occupants in the house)

USER LOW: 205 litres/day (with 3 occupants in the house)

CUSTOM: Here, you can enter a known, daily consumption. If **"CUSTOM"** is selected, press the right button to change to **"DAILY VOLUME"**. Press the middle button, and enter a known consumption with the buttons **▶** and **◀**. Confirm the entry by pressing the middle button. Press the right button **▶** until the display shows **"EXIT SETTINGS"**. Press the middle button to confirm and finish.

SETTING UP PRICES

PRICES

- are typically indicated on the bill from the waterworks as water consumption per cubic metre and waste per cubic metre.

Setting up the price of water/waste:

Press the middle button for at least 4 secs. The display shows **"BUDGET"**. Press the right button **▶** 3 times, and the display shows **"CHARGES"**. Press the middle button, and the pre-defined charge of water is now displayed. Press the middle button again, and the charge starts blinking. Now, the charge can be adjusted with the buttons **▶** and **◀**. When the charge appears as indicated on the bill from the waterworks, press the middle button to confirm it. Press the right button **▶**, and the display shows **"WASTE PRICE/M3"**. The predefined price of waste is displayed. Press the middle button again, and the price of waste starts blinking. Now, the price can be adjusted with the buttons **▶** and **◀**. When the price appears as indicated on the bill from the waterworks, press the middle button to confirm it.

When all settings have been made, press the right button until the display shows **"EXIT SETTINGS"**. Press the middle button to confirm and finish.

Note: The display automatically changes to normal display 60 secs. after the last entry.

QUESTIONS AND ANSWERS

HOW MUCH POWER DOES MY WATER DISPLAY USE?

The display uses less than 2 kWh per year.

DO OTHERS HAVE ACCESS TO MY DATA ON THE WATER DISPLAY?

No. Your data is only available to you.

MY WATER DISPLAY SHOWS AN ALARM. WHAT CAN I DO?

Leak - indicates a leak in your pipe system. It could e.g. be a dripping tap or a running cistern. If you cannot repair it yourself, you should contact an authorised plumber.

No signal - indicates that the display is out of the water meter's wireless range. Move your water display closer to the water meter.

MY WATER DISPLAY TURNS OFF AT NIGHT - DOES IT STILL WORK?

The display backlight turns off at night to save power [22:00-06:00]. The display still works. If you press a random button, the display immediately turns on again.

SAFETY

Note: You are responsible for your safety when you use Ensemble water display. It is recommended to read the safety instructions before using the product.

 Safe use of the water display requires that it is used as prescribed by the producer.

 Keep the display away from water and other liquids. Before cleaning, remove the plug from the socket, and use a soft, dry cloth for cleaning the display. The water display must not be immersed in water or other liquids. Please contact your supplier if parts are showing signs of damage or failure.

 Ensemble water display is intended for indoor use.

 To protect the environment, this product must be disposed of correctly at the end of its lifetime.

 This product complies with the RoHS regulations.

 This product is CE approved.

TECHNICAL SPECIFICATIONS

This product is intended for indoor use. It is not suitable for outdoor use.

Network voltage:	230 Vac, 50 Hz
Input power:	0.5 W
Operating temperatur range:	0 to 40 °C
Relative humidity:	85 %, non-condensing

Designed and produced by: Green Energy Options. 3 St. Mary's Court, Main Street, Hardwick, Cambridge CB23 7QS UK

 This unit has been tested and complies with the following standards:

EN300 220-1
EN301 489-3
EN61010-1, EN60950

For further technical information, please contact your local waterworks



kamstrup



Ensemble | water display

QUICK GUIDE



Follow your water consumption
– and avoid surprises
when receiving the bill

CONTENTS

- Ensemble water display
- 230 V power supply



HOW DOES THE DISPLAY WORK?

When you receive your water display, it is preset to collect data from your water meter. The display is updated with consumption data every 2 minutes. Data is transferred wirelessly and shown day and night.

WHAT DOES THE DISPLAY SHOW?

- Daily, weekly and monthly water consumption in euro/cent and litre
- Estimate of you future water consumption
- Total water consumption (also shown on the water meter)
- Information about any problems in the installation (leakages and bursts)

STARTING UP THE DISPLAY

- Plug your water display in the socket
- The water display automatically turns on

STEP 1 Setting up time and date

Set up time and date. Use the left ◀ and right ▶ buttons to set the time. When the display shows the correct time, press the middle ⏸ button to confirm. The same procedure is used to set year, month, date and number of household occupants.



Note: If date and time have been set by the supplier, you do not have to make any further settings. If you want to adjust date and time, e.g. at summer/winter time change, press the middle button for 4 secs. Then, press the right button until the display shows "DATE/TIME", and press the middle button to confirm. Now, you can make the settings as described above. When you have changed the settings, press the right button until the display shows "EXIT SETTINGS". Press the middle button to finish.

STEP 2 Checking the signal strength

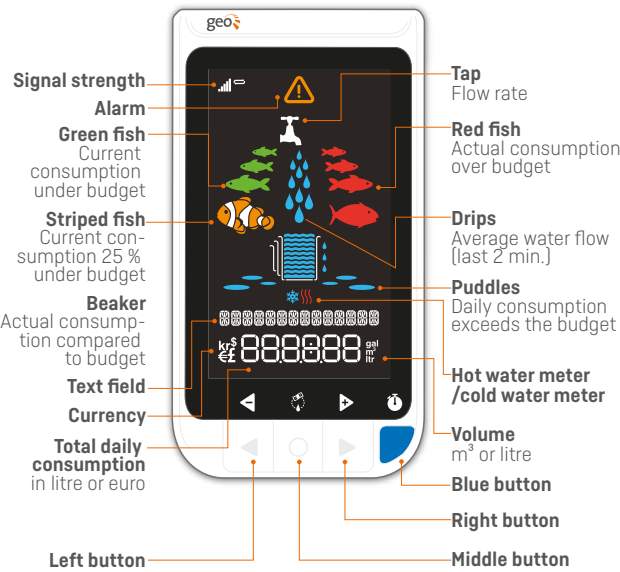
Check the signal strength of the wireless signal in the upper left corner of the display. The signal strength must be good. If the signal strength does not show at least two lines, you must move your water display closer to the water meter



Signal strength

The signal strength depends on the installation conditions. If the water meter is installed far away or in a meter well with metal cover, this will influence the signal strength.

DISPLAY



Left button: Navigate through consumption data for today, yesterday, this week, last week, this month, last month.

Note: Monday is the first day of a week. A month is a calendar month.

Middle button: Navigate through consumption data in euro/cent, volume and total consumption (meter display).

Right button: Navigate through the same data as with the left button, only in reverse order.

Blue button (stop watch): Enables you to measure the water consumption in a given period of time, e.g. during a shower or garden watering. The stop watch is activated by pressing the button for 3 secs. when the activity is started, and is deactivated when the display again shows the measured water consumption in euro/cent and litre.

DISPLAY INDICATIONS

Tap and drips



Indicates how much water you have used in the last 2 min.

1 drip = 1-60 l/hour
3 drips = 61-180 l/hour
5 drips = 301-540 l/hour
7 drips = 541-780 l/hour
9 drips = 781-1260 l/hour
10 drips = Over 1260 l/hour

Fish



Show how your water consumption is expected to develop. The display is based on the comparison with the consumption measured in the previous period of time. Red fish show that you use more water than in the previous period of time. Green fish show that you use less. If your water consumption is more than 25 % under the consumption of the previous period of time, a striped fish is displayed.

E.g.: On Monday at 12:00 hours, the water display shows how much water you have used so far on this Monday. The consumption is compared to the typical consumption of the last Mondays, and the colour of the fish shows if the consumption is expected to be over or under the budget of this day.

Note! The first time you connect your water display, it starts collecting data for comparison purposes. After a week, enough data has been collected, and the fish appear on the display.

Beaker and puddles



The beaker represents your budget (for setting up the budget, see SETTING UP THE BUDGET). The beaker fills up as water is consumed. Each "ripple" reflects 10 % of the budget. If your consumption exceeds the budget, the beaker overflows.

Alarms



An alarm is indicated in the display by:

- No signal
- Reverse flow
- Burst
- Leak
- No flow
- Dry