HENCO

MADE IN BELGIUM

Henco Smart Monitoring

Valve Manual

Henco Smart Monitoring

Valve Manual

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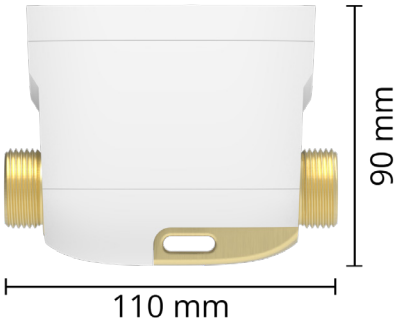
Introduction

Henco Smart Monitoring Valve measures your water flow in real time and detects water leaks immediately. The Henco Smart Monitoring Valve protects your home from damage caused by micro-leaks and broken water pipes. The compact design makes Henco Smart Monitoring Valve easy to install and fits in water cabinets. Henco Smart Monitoring Valve works completely on its own and does not need any connection to the internet. If, on the other hand, you want to receive notifications about alarms and the opportunity to see your individual water consumption, the product needs to be connected to Wi-Fi. When the device is connected, you can control Henco Smart Monitoring Valve remotely through our app.



Installation information

Henco Smart Monitoring Valve is a small device that is easy to install in tight spaces. The device is easily mounted on main incoming water pipes in a villa or apartment. The device is equipped with a knob for manual ball-valve override in the event of a power failure or emergency.

Package contents

1 x

Henco Smart Monitoring
Valve

1 x

Henco Smart Monitoring
Mains adapter

2 x

Henco Smart Monitoring
Plane adapter

Article number (model version)

HSM-VALVE-0505

Important notice

Security systems such as residential sprinklers and emergency cooling of solid fuel boilers or similar must be connected before the device. If they are installed afterwards, they risk running out of water supply.

Install the device after supplying security systems that require water.

Water filters that are backwashed should be connected first so that their function is not disturbed. The system prevents water damage that may occur after the location of the device.

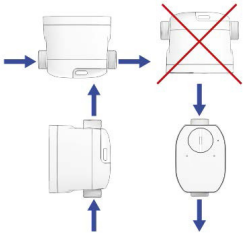
When installing metal pipes in the distributor cabinet, the pipe must be provided with an electrical protective equalization (earthing) which must be installed by a qualified electrician if there is not already an earth screw in the cabinet.

To avoid scalding in apartments, two Henco Smart Monitoring Valves can be paired. Pairing provides a synchronized automatic shut-off between the hot and cold water lines.

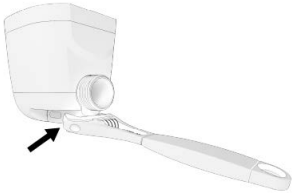
Device setup

The Henco Smart Monitoring Valve must be installed by a plumber according to the *Safe Water Installation* industry regulations.

1 Make sure that the water pipes are electrically grounded to earth. Correct installation of the device. The arrows show the direction of water flow.



2 The device is equipped with a counterhold on the underside. Use an adjustable wrench on the counterhold. It is also possible to use a screwdriver in the slot to create a counterhold.



3 The device and incoming water line, (G20 Eurocone G20).

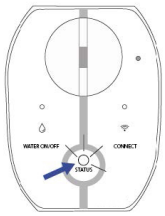
Mounting steps

1. Install the device on the incoming water line directly after the water meter's shut-off valve and any non-return valve.
2. Tighten connections without damaging the plastic casing of the device.
3. If you have also purchased Henco Smart Monitoring Detectors, pair them with your Henco Smart Monitoring Valve through the Henco app.

Physical setup

1 Connect power to the device using the micro-USB power adapter included.

2 Check that the status LED is **white** ◦. White light indicates that the device is working normally. If no LEDs are lit, check that the wall socket or power adapter is functional.



Hot/cold water pairing

1. Install and start the Henco Smart Monitoring Valves. One for hot water and one for cold water.
2. Hold down the connect button for 5 seconds on the device installed for cold water. The connect LED starts **flashing yellow** • and **blue** •.
3. Hold down the connect button for 5 seconds on the device installed for hot water. The connect LED starts **flashing yellow** • and **red** •. You can also press once on connect to switch the hot/cold water designation.
4. Make sure that the connect LEDs on both devices **flash green** • rapidly for about a second.

If pairing was not completed, redo process steps 2 to 4. To delete a pairing, perform a factory reset.

Wi-Fi setup

To be able to follow the device's measurements and alarms remotely via a smartphone, an app and a connection to a Wi-Fi network are required. **Download the Henconnect app.**

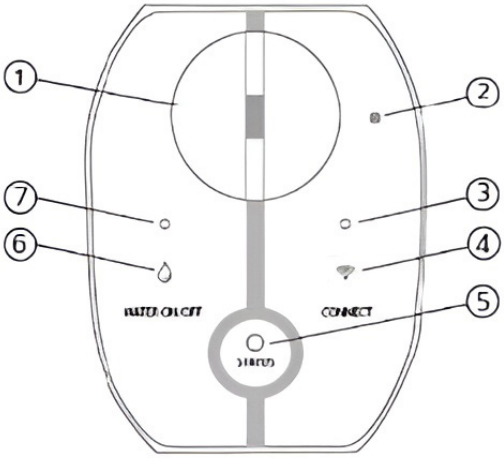
Follow instructions in the Henco app for Wi-Fi setup

Download the **Henconnect-App** for iOS here.

Download the **Henconnect-App** for Android here.

Manage your tap and monitor your water consumption in real time with the app. Receive notifications in case of an emergency/leak.

Buttons & indications



1	Manual valve switch
2	Factory reset button hole
3	Connect LED for pairing
4	Connect button for pairing
5	Status LED
6	On/off button for water
7	On/off LED for water

LED indications

Physical setup

LED	LED	Meaning	Action
OFF	●	The device is not powered. Make sure the device is connected to a power source.	Check that the power source is working properly.
WHITE	○	The device is switched on and working normally with no alarms.	-
WHITE flashing	☼	The device is being updated and some functions are temporarily disabled	Wait until finished. Do not disconnect the power source.
YELLOW	●	Leak detection is deactivated OR water pressure is too low.	Press the WATER ON/OFF button to activate leak detection or check that the water system is working properly.
YELLOW flashing	☼	Detected water leakage.	Check for leakages.
GREEN flashing	☼	The device is collecting micro-leakage data on the water pressure and has closed the valve in the meantime.	This process takes up to one minute, after which the device opens the valve again.
RED	●	The device is not working properly.	Contact technical support

Water on/off

LED	LED	Meaning	Action
OFF	●	The valve is closed. The water supply/flow is off.	Turn on water supply by pressing WATER ON/OFF
WHITE	○	The valve is open. The water supply is on.	-
WHITE flashing	☼	Indicates that there is an ongoing water flow where the frequency of the flashing indicates the amount of flow rate.	-
YELLOW	●	The position of the valve has been changed using the manual knob.	Press the WATER ON/OFF button to correct the valve position.
RED	●	The water pressure is very low or there are air bubbles or no water in the pipe.	Check that the water system is working properly.

Connect

LED	LED	Meaning	Action
OFF	●	Wi-Fi off and not configured.	-
WHITE	○	Wi-Fi configured and connected to the cloud.	-
WHITE flashing	☼	The device is in hotspot mode for Wi-Fi configuration using the app.	-
YELLOW flashing	☼	Ongoing pairing establishment between two Henco Smart Monitoring Valves, one for cold water and one for hot water.	-
YELLOW/ BLUE flashing	☼	Pairing completed between the hot and cold water devices. The connection is made from the cold water device which flashes YELLOW/ BLUE.	-
YELLOW/ RED flashing	☼	Pairing completed between the hot and cold water devices. The connection is made from the hot water device which flashes YELLOW/RED.	-
GREEN flashing	☼	Hot/cold water pairing has been successful and is completed.	-
RED flashing	☼	No internet or cloud connection.	Check router firewall or redo app setup.

Leak alarms

Leak type	Flow rate (l/h)	Meaning
Micro leak	> 0.01	If a microleak is detected, the device will sound an alarm for at least 48 to 72 hours and, after another 24 hours, shut off the water supply if the leak persists and is not detected. A micro-leak is detected if the pressure drop during the test exceeds 0.3 bar within a maximum period of 45 seconds. This is equivalent to just a few drops per minute. By default, the device automatically performs the test every day when there is no water activity.
Medium leak	> 6	The device alarms and shuts off the water after a continuous flow for at least 45 minutes.
Large leak	> 1500	The device alarms and closes the valve after a continuous flow over 1500 l/h for at least 90 seconds.

! A larger leak alarm will always override a smaller leak if it is detected.

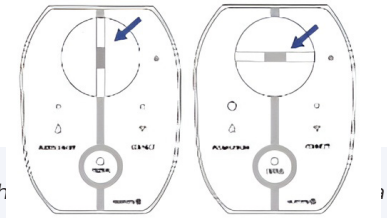
Function check

Water shut-off check

1 Press the water ON/OFF button. The LED turns off when the ball valve has completely shut off the water flow.

2 Open a tap. Check that no water comes out of the tap. *(Note that if the device is installed on the hot water pipe, cold water may still come out).*

3 Press the WATER ON/OFF button. The LED shines **white** ◦ when the valve is fully open. Check that water is now coming out of the open tap. During active waterflow the LED **flashes white** ◦.



Th closed valve is shown on the right.

Micro-leak detection check

1 Open a tap to simulate a very small leak. A dripping stream of water will suffice.

2 Press the water ON/OFF button to close the valve.

When the valve is closed, the status LED will **flash green** • while the pressure sensor scans for small leaks for about 45 seconds.

If the pressure sensor manages to find a leak, the status LED starts **flashing yellow** •. If the pressure sensor does not find a leak, redo the steps with a slightly larger leak.

3 Close the tap and press the water ON/ OFF button to open the valve again

Leak detection check

1 Open a tap with the valve in the open position.

2 Leave the valve at full flow on the tap for at least 45 minutes.

3 Check that the device emits an alarm and switches off the flow after 45 minutes.

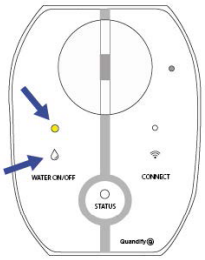
4 Then close the tap and reset the device.

Acknowledge alarms

- ✔ Press the water ON/OFF button once to acknowledge and turn off the alarm.
- ✔ Press the water ON/OFF button again to open the valve.

Disable leak detection

The leak detection can be deactivated if a larger amount of water is needed to e.g. fill a pool or for irrigation. The preset time is 24 hours.



The deactivation of the alarm can be done in the app or manually by holding down the water ON/OFF button for 5 seconds. The LED will turn **yellow** • when deactivated. Press again once to re-activate leak detection.

Reset Wi-Fi

If the connect LED is red • or off:

- ✔ Press the connect button once.

If the connect LED is white ○ :

- ✔ Restart the device using the power cable and press the connect button once the connect LED is **red** •. This can also be done via the app.

Factory reset

1. Unplug the power supply from the device.
2. Insert a paperclip into the hole on the reset button while plugging in the power cable for 3 seconds.
3. Wait for about three minutes. After about three minutes, the device has reset and the LEDs light up again.

NOTE: you will lose applied firmware updates and hot/cold pairings when doing a factory reset.

Operation

You can access the device data such as water usage, temperature, pressure, valve position and leakage status via the mobile app. When the device is powered on, it performs daily automatic leakage tests and exercises the ball-valve.

After a potential power failure, the device returns to the same mode it was in before the power failure.

Serial number

You can find the 12 characters long serial number on the bottom of the Henco Smart Monitoring Valve. The data-matrix beside the serial number can also be used using barcode scanners.

Datasheet

Parameter	Value
Area of use	Villa, terraced house, apartment
Environment	Indoor (not waterproof)
Pipe connection	G20 Eurocone external thread (DN20)
Climate/environment	5 °C - 30 °C
Storage	-25 °C - 55 °C
Wireless frequency	2.4 GHz, (802.11bgn)
Water temperature	Cold and hot water (0.1°C - 70°C)
Pressure	PN10
Maximum pressure (15min)	16 Bar
Water flow during loss of water pressure, 1 bar (Kvs)	4,6 m^3/h
Maximum flow rate	4 000 l/h
Start flow rate	6 l/h
Micro-leakage detected	>0.3 bar pressure loss (approx. 0.01 l/h)
Medium sized leakage detected	>6 l/h for at least 45 minutes
Large leakage detected	>1500 l/h for at least 90 seconds
Weight	720 grams
Dimensions (Height)	85 mm
Dimensions (Width)	71 mm
Dimensions (Length)	110 mm
Power supply	5VDC 2A Power supply, micro-USB cable (EU-plug), 1m cable
Average device power usage	~6 kWh/year (Wi-Fi on)
Default transmission resolution	1 hour (possible to request more frequently)
Valve open/close time	~10 seconds
Flow rate accuracy	Max ±3% error
Water temperature accuracy	Max ±2% error
Water pressure accuracy	Max ±10% error

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HSM-VALVE-0505

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