

*Pure Freude
an Wasser*

GROHE
WAVES

THE ELECTRONIC FAUCET THAT GENERATES ITS OWN ELECTRICITY

GROHE POWERBOX



Save water, Energy and Money with GROHE's Powerbox. A low-maintenance, green solution for forward-thinking projects.

GROHE POWERBOX

GROHE dynamo power

At GROHE we believe in the power of water. We work to create products that celebrate it and also conserve it. With our latest innovation – The Powerbox – we've found a way to use the power of water to save projects money, energy, and precious water too. Powerbox allows an electronic faucet to be completely self-powering, making savings on water, energy and money.

How it works

GROHE's technology uses the faucet's own water flow to drive a turbine, concealed in a small box installed below the basin. This converts the energy from the flowing water into storable electric energy which then powers the faucet's infrared function. Just 60 seconds of the water running delivers and stores enough energy to power the mixer for 24 hours.

GROHE'S INNOVATED POWERBOX WILL SAVE YOUR PROJECT ON THREE FRONTS

Save Water

The electronic faucet only delivers the water required, minimizing waste. With seven possible settings, it can also be further tailored to meet the needs of the project and its users without wasting a drop.

Save Energy

The Powerbox is the most efficient power harvester in the business, with a storage capacity that allows 100 hours of use from just 260 seconds of water flowing. No energy from the mains is required to power the unit which means no electricity bills to pay.

Save Money

Requiring no mains electricity to run will cut bills, but the design also saves on running costs as well. It operates maintenance-free for ten years, and is simple to install from the start.



GROHE RECOMMENDATIONS COMMERCIAL

Why infrared?

If you haven't specified infrared faucets before, the investment is well worth it. Not only do they offer a convenient user experience and a green option for your build, their touch-free operation also offers excellent hygiene benefits, ideals for public or busy spaces.

Infrared faucets also have the advantage of shutting off automatically after hand washing thereby reducing waste water. There are seven pre-set options to choose from to ensure superior hygiene in the whole system. These include automatic flushing every 24 or 72 hours, a three minute stop mode to clean the basin and a thermal disinfection cycle.

Features include:

- Infrared, touch-free operation for maximum hygiene
- Optional remote control accessory

Will it work for your project?

The Powerbox's simple design means its positive benefits can be applied to a wide number of project types. It's especially suited to washrooms in high traffic areas - from airports and hotels to offices and public institutions. Its self-sustaining power model and low maintenance design also makes it ideal for projects where electricity mains are absent or unreliable. And it is perfect for buildings working hard to meet green standards - it helps you achieve challenging LEED, BREEAM, and Estidama standards.

Don't compromise on design

All these positives are matched by design excellence too. The Powerbox is specified to the Euroeco E.



36 314 000
Euroeco E
"Touch-Free" electronic faucet,
1.0gpm
CE approved



36 385 000
Euroeco E + Powerbox
infra-red electronic faucet,
0.2gpc



36 407 000
Remote control
For all GROHE infra-red products
functions for single eye infra-red
electronics (see Remote Reference)



36 329 000
Eurosmart® E
"Touch-Free" electronic faucet



36 328 000
Eurosmart® E
"Touch-Free" electronic faucet
with temperature control lever



34 507 000
GrohTherm® Micro
Thermo scalding protection



36 276 000
Anti-twist device for Eurosmart® CE

GROHE ELECTRONIC CONTROLS

The latest generation with bi-directional data exchange.

GROHE Electronic products are equipped with the latest infrared control to allow bi-directional data exchange. These infrared products are not only receiving control commands for monitoring and settings, they also send out usage data and settings.

The fitting automatically “recognizes” the presence of the user in the detection area. The detection zone can be adjusted depending on the usage, eg in hospitals, wall fittings can be changed from hand to body detection, to fulfill all requirements.

GROHE Electronic products are sustainable in terms of maintenance and life cycles. Due to their low energy requirements, the batteries have a long service life: up to seven years at 150 cycles per day. Alternatively, all electronic devices also can be powered by a mains connection (120V).

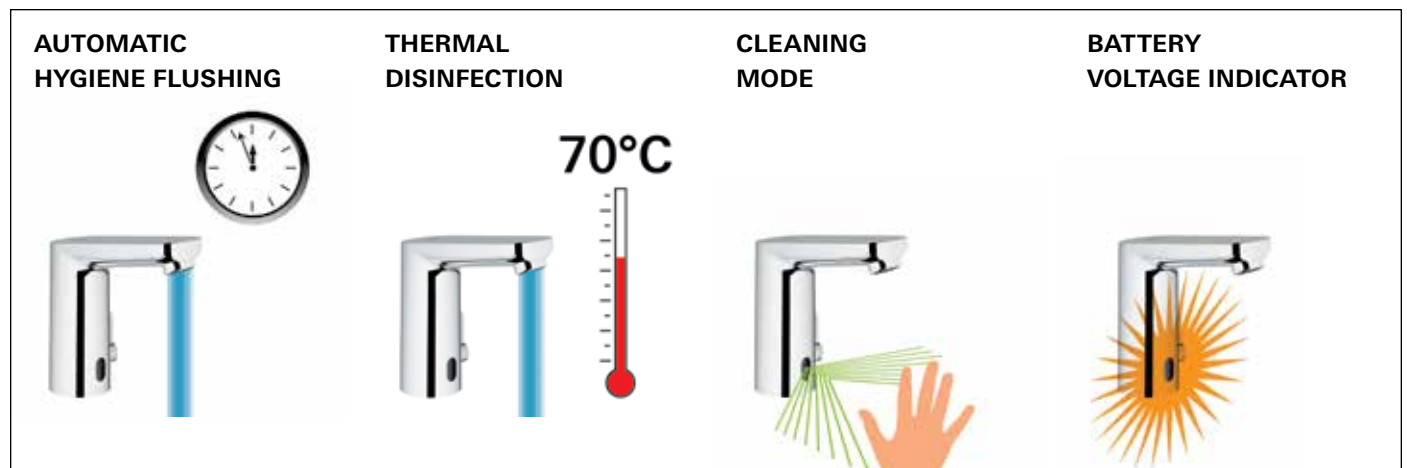
GROHE Electronic products demonstrate their high “intelligence” with seven programmable options, eg for automatic interval flushing with adjustable flush duration and cleaning mode.

The latest generation of GROHE Electronic products have a single infrared window, which is recognized by the “eye” of the infrared control, and which now blinks yellow (red previously).

- Reliable functioning
- Reliable detection with a 30-degree detection angle
- Unique low-energy electronics
- Seven easily accessible, comprehensive programs
- Simple adjustments and readout of consumption data through bidirectional data exchange via remote control

ADJUSTMENTS USING SENSOR SYSTEM

Seven programmable options with the following content	Sensor-controlled: stops automatically when a hand approaches
Automatic flushing function (Off, 24 or 72hrs to prevent water stagnation)	Cleaning stop (Off or 180sec, easy operation for cleaning personnel)
Automatic flush duration (60, 300 or 600sec)	Battery voltage indicator: blinking LED light = low battery charge
Thermal disinfection (3.5 or 11 min or continuous operation)	4 levels of charge are displayed: >60%, >40%, >20%, <20%



NEW REMOTE CONTROL: SMART EQUIPMENT FOR DATA EXCHANGE

The new GROHE remote control is a prerequisite for data exchange with GROHE infrared products installed in washbasins, urinals and WCs. It is not only logical and easy to use, it comes equipped with extra functionality.

Consumption data can be customized using several settings. Running times as well as automatic cleaning and interval flushing are particularly easily activated. Thermal disinfection (with countdown function) is activated by the push of a button as and when required.

This new data exchange technology connected to the new remote control provides maintenance personnel with all necessary product and usage data on the easy-to-read display, allowing for long-term operational efficiencies. Maintenance has been simplified by the easy-to-use controls, and operational costs are easier to determine, and can therefore be reduced on the long term.



ADDITIONAL ADJUSTMENTS VIA REMOTE CONTROL	USAGE DATA VIA REMOTE CONTROL (MONITORING)
Reading, saving and sending of the product profile (one profile per product type)	Monitoring of consumption and flow-rate data
Automatic flushing function, flexible in 4hr intervals (4-80 hrs)	Total running time or number of flushes
Automatic flush duration in 30sec intervals (30-600 sec)	Number of days in the function
Thermal disinfection in 1min intervals (2-23min)	Number of cycles of the solenoid valve
Activate thermal disinfection by the simple push of a button	Reset solenoid valve counter for service measures
Cleaning stop with three different time settings (180, 320, 560 sec)	Number of pre-flushes and cleaning flushes
Total run time of water flow per activation (6-420 sec)	Number of power drops
Run-on time after leaving the detection zone is individually adjustable in 1sec intervals (0-19sec)	Software version, serial number and production date of the infrared product
	Battery Level

GROHE ELECTRONIC CONTROLS

GROHE IR technology with Bluetooth communication. Mobile control and monitoring via app.

Fast information of all infrared products in public sanitary spaces. Now you can connect selected infrared products (via an app) with a Smartphone or Tablet PC. With the IR remote app from GROHE –which can be Password protected – you have several additional setup options with insight into even more information. Easy to use for the installer or the maintenance staff who can have a complete overview of infrared products (WC, Urinal, washbasin and shower) with the Bluetooth communication module.

In comparison with the GROHE remote control, more information and program settings are available, for example: program the start of the stagnation cycle, switch off the products for a certain time, save 3 profiles per product category, one click thermal disinfection, password protection, assign a name or a code to every product. This is possible with selected hardwired infrared products which are equipped with a Bluetooth module.

The GROHE IR remote app is free in App stores for iPhones and Android systems available.





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