

 **MODERN PLANT**


*Pure Freude
an Wasser*



BEFORE A DRIP
BECOMES A FLOOD.

DETECT TO TAKE CARE WITH GROHE SENSE.





AT GROHE,
OUR VISION IS TO ENSURE
THAT WATER IS ALWAYS
A SOURCE OF PLEASURE.

YET SOMETIMES WATER IS ALSO
A SOURCE OF PROBLEMS.

A LEAK. A BLOCKED SINK.
A BURST PIPE.

AND SUDDENLY
YOU ARE CONFRONTED
WITH A RUINED HOME
AND DISASTROUS COSTS.





YOU MIGHT THINK
IT CANNOT HAPPEN
TO YOU.

BUT THE FACT IS THAT
EVERY 2ND FAMILY
HAS EXPERIENCED
WATER DAMAGE
AT LEAST ONCE.





WHEN WATER GETS
OUT OF CONTROL,
YOUR HOME IS
DEFENCELESS.



Anytime, anywhere

Leaks can occur anywhere in the home – and at anytime. They can result from pipe damage or faulty appliances, with bathrooms being the worst affected.



A race against time

When water damage occurs, half the time the walls are also affected. In 83%¹ of those cases, mould penetrates the walls due to excess humidity. Given that mould develops rapidly building up within just 24 hours, there is an urgent need to respond immediately.



Watch out for the pipes

65%² of water damage is due to burst or leaking pipes. During freezing weather spells as many as 3,500³ claims have been recorded for burst pipe damage in a single day, costing the average household £7,000.



The drip that brings the house down

Small leaks can go on for months or even years without being noticed – and can cause extensive damage.

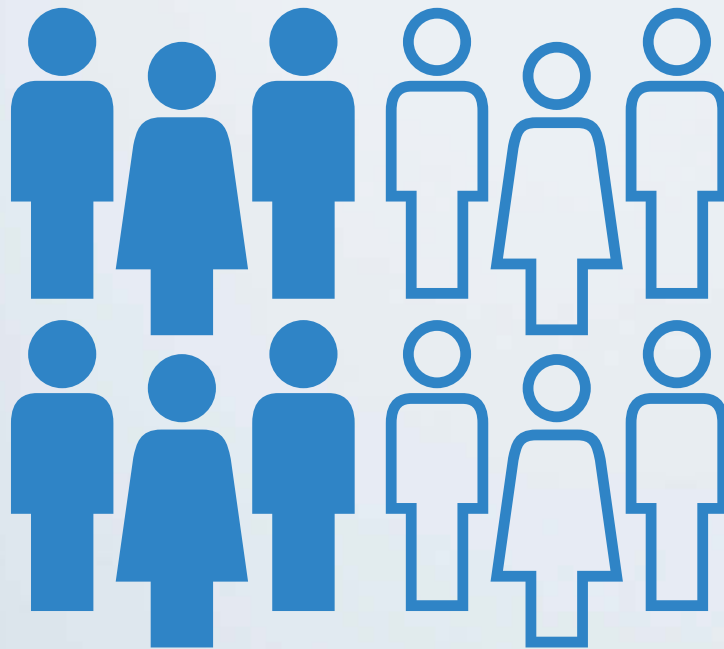


¹ The ConsumerView, January 2016, Water Security Research

² The ConsumerView, May 2016, Quantitative End-user Assessment Germany

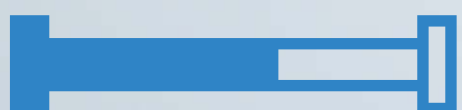
³ <https://www.directline.com/home-insurance/home-and-garden/the-true-cost-of-water-claims>

THE ALARMING FACTS ABOUT WATER DAMAGE: THE NO.1 PROBLEM WITHIN THE HOME



54%

54% of households have experienced mains-related water damage.¹



65%

65% of all cases were related to pipes.²

¹ The ConsumerView, January 2017, Quantitative Assessment Europe

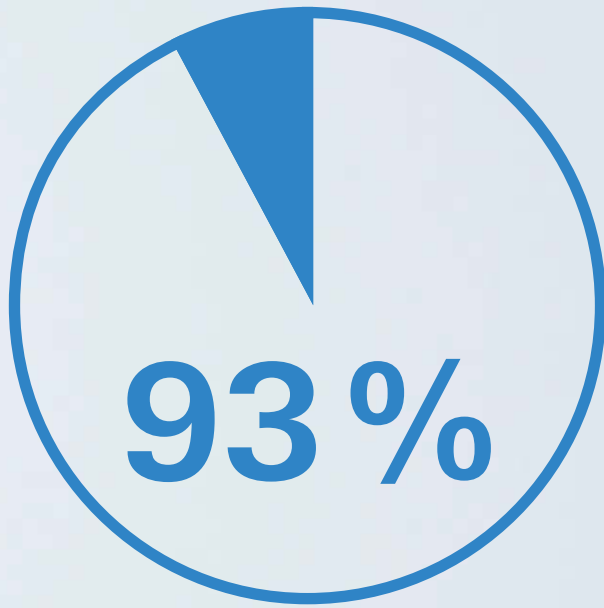
² The ConsumerView, May 2016, Quantitative Assessment Europe

³ ACE-Group: <http://www.businesswire.com/news/home/20110404007195/en/ACE-Private-Risk-Services-Study-Identifies-Type>

⁴ Chartered Institute of Loss Adjusters - <http://www.cila.co.uk/cila/download-link/sig-downloads/property/125-ific-escape-of-water-factsheet/file>

⁵ <https://insider.zurich.co.uk/industry-spotlight/escape-of-water-the-causes-and-influencing-factors/>

⁶ https://irp-cdn.multiscreensite.com/c4e267ab/files/uploaded/Rf7chFZfSe2cTKWmjbMA_WHO_Guidelines%20for%20Indoor%20Air%20Quality_Dampness%20and%20Mould_2009.pdf



In 93% of cases, water damage could have been prevented.³



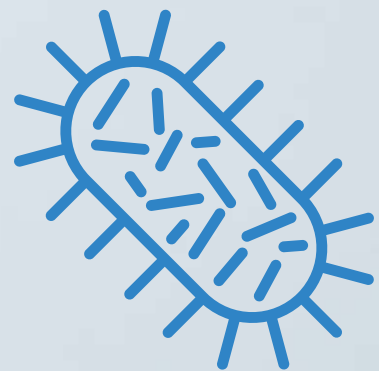
£2million

According to The Association of British Insurers, escape of water causes approximately £2million worth of damage every day.⁵

£7,000



In the UK, the average burst pipe claim is £7,000.⁴ 28% of households are not even reimbursed at all. Those who are only get 61%¹ of the total cost reimbursed.



24 hours

After just 24 hours mould can start to build up due to humidity, causing respiratory problems, asthma and allergies.⁶

THE COST OF WATER DAMAGE CAN RUN **INTO THE THOUSANDS...**

A flooded home is just the beginning.
The moment the damage occurs, time is of the essence.
The longer it takes to dry out your home, the greater
the danger of mould beginning to grow.

But first the insurance company has to be involved and
the claim approved. A plumber has to bring in drying
machines that are in action for days and it often means
opening up a wall. The mess goes on and on, and the
bill for it all can bring tears to your eyes.





... BUT IT'S NOTHING COMPARED TO THE **COST OF LOST MEMORIES.**

Far worse is the realisation of what you have lost: treasured photographs, now covered with mould, a trunk with your ruined wedding dress and your children's first drawings – sodden and disintegrating. A whole lifetime of memories that can never be brought back.





JUST IMAGINE IF YOU HAD
A **WARNING SYSTEM:**

ONE THAT WOULD
ALERT YOU IF SOMETHING
WENT WRONG.

OR STEP IN TO AVERT
A FLOOD.





GROHE
~~~~~



INTRODUCING **GROHE SENSE**  
**AND GROHE SENSE GUARD:**  
THE WATER SECURITY SYSTEM  
THAT TAKES CARE OF YOUR  
HOME.

# GROHE SENSE

THE SMART WATER SENSOR  
THAT DETECTS WATER IN YOUR HOME.







CONNECTION



AND **GROHE SENSE GUARD\***  
THE SMART WATER CONTROLLER  
THAT DETECTS BURST PIPES\*\*  
AND AUTOMATICALLY SHUTS OFF  
THE WATER SUPPLY.

\* GROHE Sense Guard requires a minimum working pressure of 0.5 bar, recommended working pressure 1-5 bar

\*\* GROHE defines a pipe burst as a complete hole or a crack in the downstream piping system, resulting in unintended disposal of water with close to maximal flow rate. Burst pipes detection depends on the general water usage profile, therefore time-lag to shut-off can vary significantly. During that time water might be disposed. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations



AND THE **GROHE ONDUS APP**  
FOR COMPLETE WATER CONTROL  
OF YOUR HOME.



100%  

OUS  
TED WATER

GROHE SENSE  
PROVIDES WATER SECURITY  
FOR YOUR ENTIRE HOME 24/7  
**DETECTS, ALERTS AND STOPS!**



GROHE Sense is an easily installed, Wireless LAN-connected water security system for your entire house.

But more than that: GROHE Sense Guard tracks water consumption, detects micro leaks and in case of a burst pipe, GROHE Sense Guard even shuts off the water supply automatically.

Know what is going on in your house anytime and stay in control with the GROHE Ondus app on your smartphone.



# GROHE SENSE + GROHE SENSE GUARD: YOUR **SECURITY TEAM** FOR WATER SAFETY IN YOUR HOME.

DETECTS LEAKS  
ON THE FLOOR

EASY TO  
INSTALL



SENSES  
HUMIDITY

SENSES  
TEMPERATURE AND  
DETECTS FROST RISK

DETECTS  
BURST PIPES\*  
AND STOPS  
WATER FLOW  
AUTOMATICALLY

SENSES  
WATER  
PRESSURE,  
TEMPERATURE  
AND FLOW



DETECTS  
FROST RISK AND  
MICRO LEAKS\*\*

TRACKS  
CONSUMPTION

\* Burst pipes detection depends on the general water usage profile, therefore time-lag to shut-off can vary significantly. During that time water might be disposed. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations.

\*\* A micro leak test is conducted once every 24 hours. Pipe material, volume and other piping system characteristics can impact the result. Micro leak detection is limited to the cold water system in most cases. Combine with GROHE Sense to monitor potential humidity increase over time.

GROHE SENSE  
AND GROHE SENSE GUARD:  
ENVISIONED, DEVELOPED  
AND **MADE IN GERMANY**



GROHE



THE **DILIGENT WATER SENSOR**  
THAT NEVER SLEEPS.



**GROHE**  




In the bathroom, where humidity can be a problem if you do not ventilate regularly.

# GROHE SENSE IS THE **EVER-PRESENT WATCHDOG** PROTECTING EVERY SPACE IN YOUR HOME.

Watching out for leaks under the kitchen sink or the washbasin.



In the basement tracking humidity and monitoring temperature to identify frost risk.



Next to the washing machine in the event of a leak.



# GROHE SENSE IS **CONSTANTLY ON THE LOOKOUT –** SO YOU DON'T HAVE TO BE.

GROHE Sense detects the presence of water and alerts you – before it leads to something worse.





# BEFORE A DRIP BECOMES A FLOOD.

Imagine your old washing machine starts to leak and water seeps over the floor. The moment that water comes into contact with the sensor, GROHE Sense emits a beeping sound, a pulsating red light and sends a push notification to your smartphone that is connected to the internet. **Giving you a chance to react. Fast.** So you're there in time to stop the leak becoming a flood and can still enjoy the last rays of sunshine.





12:00 AM TELEKOM 100%

### GROHE SENSE



Last update: January 1, 2017 12:00  
Location: My Home, Bathroom

Sunday, January 1, 2017 12:06



**FLOODING DETECTED**

TAP FOR DETAILS

WLAN SIGNAL



CONNECTED

BATTERY STATUS



100 %



SO JUST SIT BACK  
AND RELAX:  
**GROHE SENSE**  
IS ON THE JOB.



# ONCE YOU CAN SEE IT, **IT'S TOO LATE.**

Mould and humidity go hand in hand. Humidity and damp provide the ideal conditions for mould to grow – it can start to develop after just 24 hours. Mould not only damages your house and property, but it is also a creeping health hazard that is much harder to remove than to prevent. It can be a particular health risk for the very young and very old as it can cause irritation in the respiratory area.





# TOO MUCH IS BAD – **TOO LITTLE AS WELL.**

Since we don't have a feeling for the humidity level in our homes, GROHE Sense is the answer. It alerts you according to your set thresholds – e.g. allowing you to act before mould rears its ugly head.

But your health can also suffer when humidity levels are too low: irritated sinuses, itchy eyes and dry skin and an increased risk of colds can result.

But short-term high or low humidity is not a problem – it only becomes critical after a length of time. That's why GROHE Sense alerts you if the humidity stays above or below these levels for more than three consecutive hours.





TELEKOM 12:00 AM 100%  
GROHE SENSE



HUMIDITY  
Change thresholds by shifting the values.



# WATER MAKES GROHE SENSE **SEE RED**

GROHE Sense is truly smart. Equipped with a range of intelligent functions to detect, sense and respond to the presence of water where it shouldn't be.



**GROHE**





### **Detects Flooding**

And instantly alerts you.  
Even without WLAN connectivity, GROHE Sense detects flooding and alerts you through a pulsating red light and a beeping sound.



### **AquaAlarm**

Receive situation-dependent alerts via pulsating red light, beeping sound or on your smartphone.



### **Senses Humidity**

Get a daily update of room humidity, measured once every hour, set thresholds and get warned instantly if humidity is critical for more than 3 hours.



### **Senses Temperature**

Get a daily update of room temperature on the hour, set thresholds and get warned instantly if critical.\*



### **AqualIQ**

The self-learning algorithm ensures that all alerts and actions are perfectly adapted to match your household situation.



### **LongLifeBattery**

Durable battery life for up to 4 years.



### **WaterResistant**

With closed cap protected against spraying water.



### **GROHE Ondus**

One app to access and manage all GROHE connected products from your mobile device.

# NO HIDING PLACE FOR WATER – FOR EVERY SITUATION, THE RIGHT GROHE SENSE.

## **The minimalist solution for any location**

For frequently visited rooms and places with easy access, this is the straightforward answer. Thanks to its premium design it looks good everywhere

As with any GROHE Sense model you will be alarmed immediately in case of flooding, critical temperatures and humidity. It also sends you daily updates on humidity and temperature.



## **For difficult-to-reach locations – GROHE Sense combined with the extension set**

Some places are harder to monitor than others. For especially tight corners and narrow spaces such as under your washing machine or below the bath, the GROHE Sense Extension Set is the answer.



## **GROHE Sense+ Ideal for holiday homes or the cellar**

For especially critical locations that are infrequently visited and where constant monitoring is desirable, the best choice is GROHE Sense+, the mains powered sensor.

It allows for daily updates on humidity and temperature and for the current status to be remotely checked anytime.



**22 505 LNO**  
GROHE Sense  
Smart for Wireless LAN  
Battery powered



**22 506 LNO**  
Extension set  
for GROHE Sense 22 505 LNO  
For difficult to reach locations



**22 508 LNO**  
GROHE Sense+  
Smart for Wireless LAN,  
mains powered, 230V



# INSTALL IT YOURSELF IN AN INSTANT.

With GROHE Sense you can detect water and make your home safer in just 10 minutes.

Simply download the app and register, place the sensor in the chosen location, insert the batteries or connect the power plug. Then use the app to connect your GROHE Sense to the wireless LAN.





# THE INTELLIGENT GUARDIAN OF YOUR HOME.



GROHE



WATER ON/OFF

ON

# GROHE SENSE GUARD: 24/7 IN ACTION.

Guaranteed to let you sleep easy: when you integrate GROHE Sense Guard into the main water pipe, it constantly monitors water flow, pressure and temperature, actively detecting leaks and frost risk, responding to even the smallest changes and alerting you automatically. GROHE Sense Guard requires a minimum working pressure of 0.5 bar. In case you don't know your normal working pressure, please ask your installer.





# TAKE CONTROL OF YOUR **WATER CONSUMPTION.**

With GROHE Sense Guard and the GROHE Ondus app, you can remotely track your water consumption – daily, weekly or monthly – and keep your water bills under control.

GROHE Sense Guard also alerts you to unusual consumption and discovers leakages or anomalies.





# HOW TO AVOID A **FROSTY WELCOME.**

During extended periods of frost, frozen pipes cause an increase of 52%<sup>1</sup> in reported water damage. The danger of this happening is much greater in rooms that are not often checked – like the basement – or weekend homes that are seldom attended to.

Both GROHE Sense and GROHE Sense Guard help you to avoid potential damage caused by frost. GROHE Sense Guard senses the water temperature where it enters your house and gives you early warning of the risk of incoming frost water.

And GROHE Sense alerts you when the room temperature falls below 3°C. So you can close windows or turn the heating up.



<sup>1</sup> [http://www.schadenprisma.de/pdf/sp\\_2015\\_1\\_1.pdf](http://www.schadenprisma.de/pdf/sp_2015_1_1.pdf)





## GROHE SENSE

Last update: January 1, 2017 12:00  
Location: My Home, Bathroom

Updated: January 1, 2017 12:00



### FROST WARNING

The temperature in the room is close to frost. Please check the situation immediately. Click on Help to receive further information.




Mark as read



Help

WLAN SIGNAL

BATTERY STATUS



BAD THINGS  
ARE WAITING  
TO HAPPEN  
**(BUT WE WON'T  
LET THEM).**

The **burst pipe** which results in costs averaging £7,000\*. GROHE Sense Guard detects and shuts off the water supply automatically, preventing your home from being flooded.\*\*

Even if GROHE Sense Guard loses Wireless LAN connectivity, this function controlled by the AqualQ algorithm still works independently.



The **dripping tap** that loses one drip per second can waste more than 11,000 litres per year. That is enough water for more than 180 showers! GROHE Sense Guard detects even small amounts of water loss\*\*\*, so you can find the issue and get the leak repaired.



The **leaking pipe** which together with leaking taps, showers or toilets, causes 28%\*\*\*\* of water damage. Often minimal in size, these small leaks can go on for years, completely saturating walls or floors over time and causing extensive damage. GROHE Sense Guard detects the leak\*\*\*, so you can check things out and get it repaired.



The **frozen pipe** that can occur during extended periods of frost, especially in rooms or houses that are not often visited or checked. GROHE Sense Guard senses the water temperature and gives you early warning of the risk of incoming frost water.



\* Chartered Institute of Loss Adjusters – <http://www.cila.co.uk/cila/download-link/sig-downloads/property/125-ific-escape-of-water-factsheet/file>

\*\* Burst pipes detection depends on the general water usage profile, therefore time-lag to shut-off can vary significantly. During that time water might be disposed. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations.

\*\*\* A micro leak test is conducted once every 24 hours. Pipe material, volume and other piping system characteristics can impact the result. Micro leak detection is limited to the cold water system in most cases. Combine with GROHE Sense to monitor potential humidity increase over time.

\*\*\*\* The ConsumerView, May 2016, Quantitative End-user Assessment Germany

# MICRO LEAKS\* CAN LEAD TO A **MACRO BILL.**

Think of the drip of a tap in the night, a garden hose that hasn't been turned off completely or a dripping toilet. Not to forget a dripping pipe in the wall...

They sound like smallish problems but they add up to a huge waste of water over time. And equally to a huge waste of money.

On top of that a micro leak in the wall is often detected only after many months, by which time it could have caused major damage to walls and floors. GROHE Sense Guard detects most micro leaks in the cold water system and alerts you so you can react.



\* A micro leak test is conducted once every 24 hours. Pipe material, volume and other piping system characteristics can impact the result. Micro leak detection is limited to the cold water system in most cases. Combine with GROHE Sense to monitor potential humidity increase over time.





# IN THE CASE OF A BURST PIPE\*, GROHE SENSE GUARD **AUTOMATICALLY SHUTS OFF THE WATER.**

Think of the worst thing that can happen when you're on holiday:  
a pipe bursts, the basement gets flooded, mould creeps up the  
walls, the antique furniture is ruined and ... stop right there!

With GROHE Sense Guard in case a pipe breaks,  
AquaBlock reacts automatically, closing the valve, shutting  
off the water and saving not just the day – but the holiday.



# WATER OFF

\* Burst pipes detection depends on the general water usage profile, therefore time-lag to shut-off can vary significantly. During that time water might be disposed. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations.

# GROHE SENSE GUARD IS ALWAYS THERE FOR YOU – **WHEREVER YOU ARE.**

One glance at your smartphone tells you all you need to know:  
the water has been stopped and you can carry on enjoying your holiday.





## GROHE SENSE GUARD



Last update: January 1, 2017 12:00  
Location: My Home, Bathroom

Sunday, January 1, 2017 12:00

### PIPE BREAK DETECTED

GROHE Sense Guard detected a pipe break in your house. The AquaBlock function shut off the water supply already and therefore prevents additional water running through the pipes. Water which has already been inside the water system might have leaked. This does not automatically mean that a major issue occurred

Mark as read, issue is solved

Help



SO EVEN ON THE OTHER SIDE  
OF THE WORLD ...

... YOU STILL HAVE **EVERYTHING  
UNDER CONTROL.**

You can open the GROHE Ondus app anytime and anywhere to get the latest status from home.

Best option of all: enjoy total peace of mind while you are away. Shut off the water supply when you leave the house or if you forget, by using your smartphone.



# GREAT DETECTIVE WORK

GROHE Sense Guard is the clever, round-the-clock water-detection system that detects smaller leaks and dripping taps and in the case of a burst pipe shuts off the water supply.

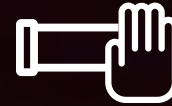
Furthermore, it constantly measures and compares water pressure, temperature and flow with pre-set thresholds.





#### **Detects Pipe Breaks\***

Detects a pipe break, automatically shuts off the water supply and alerts you. Even without connectivity, GROHE Sense Guard detects the pipe break and alerts you through a pulsating red light and a beeping sound.



#### **AquaBlock**

Shuts off the water supply either manually or automatically in case of a pipe break.



#### **Detects Drop Leakages\*\***

Detects drop leakages and alerts you.



#### **Detects Unusual Water Flow\*\*\***

Detects unusual water consumption and alerts you.



#### **Detects Frost Risk**

Detects if the incoming water could cause frost and alerts you.



#### **AquaAlarm**

Receive situation dependent alerts via pulsating red light, beeping sound or on your smartphone.



#### **AquaTrack**

Tracks your water consumption accurately.



#### **Normally Open**

Water remains available in case of a power cut.



#### **AqualIQ**

The self-learning algorithm ensures that all alerts and actions are perfectly adapted to match your household consumption.



#### **GROHE Ondus**

One app to access and manage all GROHE connected products from your mobile device.

\* Pipe break detection depends on the general water usage profile, therefore time-lag to shut-off can vary significantly. During that time water might be disposed. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations.

\*\* A micro leak test is conducted once every 24 hours. Pipe material, volume and other piping system characteristics can impact the result. Micro leak detection is limited to the cold water system in most cases. Combine with GROHE Sense to monitor potential humidity increase over time.

\*\*\* Detection speed depending on the water usage profile in the house. Achieve higher detection speed by combining the installation with GROHE Sense on critical locations.

# RELAX – AND LET THE **GROHE INSTALLER** DO THE WORK.

It's a simple matter to install GROHE Sense devices all round your house.

However we recommend that you use the services of a professional installer to install GROHE Sense Guard.

For the installer, the job is easy and fast: in about an hour, your home is much safer.

To find your nearest GROHE installer, go to [www.find-installer.grohe.com](http://www.find-installer.grohe.com)





**SMART**  
IN EVERY SENSE  
OF THE WORD



TELEKOM 12:00 AM 100%

GROHE

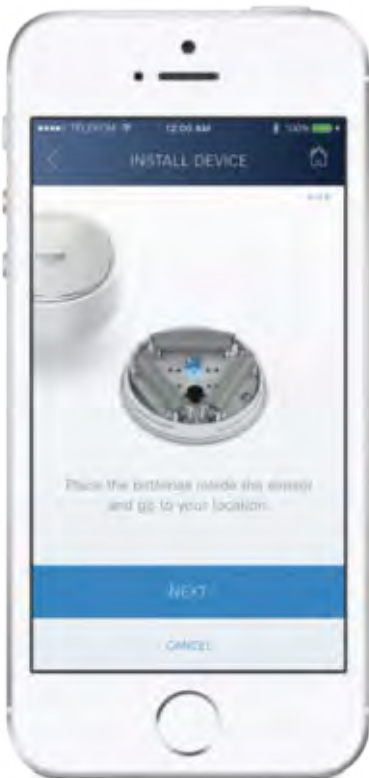
ONDUS  
CONNECTED WATER



Manage all connected GROHE devices in one easy-to-handle app.



Manage multiple houses and rooms.



Easy installation. The app guides you through the set-up process – step by step.



Monitor temperature and humidity with your GROHE Sense and Sense+.

# INTRODUCING THE **GROHE ONDUS APP** – YOUR PERSONAL DIGITAL WATER PROFILE.

1 app – 1 digital water profile: GROHE Ondus forms the centrepiece of the GROHE Sense system, offering you the highest level of water safety and allowing you to continually monitor and control GROHE Sense and GROHE Sense Guard – whenever and wherever.



For Android 4.3+ and Apple iOS 9+



Control your devices, e.g. turning water on and off with your GROHE Sense Guard.



Monitor water pressure, water flow and water temperature with your GROHE Sense Guard.

# GROHE SENSE AND GROHE SENSE GUARD PRODUCT PORTFOLIO



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## **22 505 LNO**

GROHE Sense  
Smart for Wireless LAN,  
battery powered



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## **22 506 LNO**

Extension set  
for GROHE Sense 22 505 LNO  
For difficult-to-reach locations



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## **22 508 LNO**

GROHE Sense+  
Smart for Wireless LAN,  
mains powered, 230 V

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**22 513 LN0**

GROHE Sense Guard  
Smart for Wireless LAN,  
mains connected 230 V, for a minimum  
working pressure of 0.5 bar.



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**22 501 000**

Wall mount set  
for GROHE Sense Guard  
water controller



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**22 517 LN0**

GROHE Sense Kit  
containing Smart for Wireless LAN,  
mains connected 230 V for a minimum  
working pressure of 0.5 bar.  
+ 3 x Smart for Wireless LAN,  
battery powered

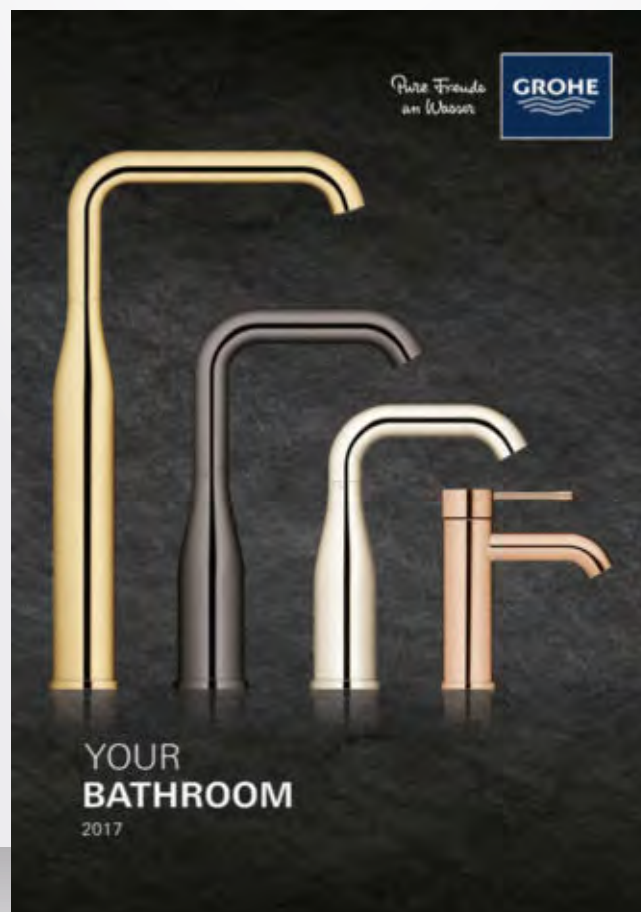


# DISCOVER THE WORLD OF GROHE

What you see here represents just a small selection of what the world of GROHE has to offer. Whether you are looking for ideas and inspiration or solutions for bath and kitchen, here's where you'll find it.

Just scan the QR codes to view the latest brochures as download or PDF on your tablet or smart phone.

**Or visit the world of GROHE at [grohe.co.uk](http://grohe.co.uk)**

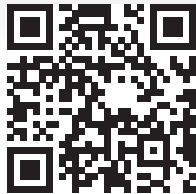


**BATH BROCHURE**





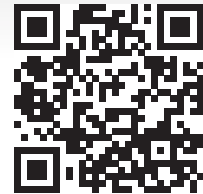
CERAMICS BROCHURE



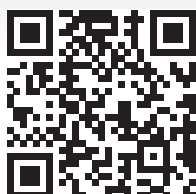
SPA BROCHURE



SENSIA ARENA BROCHURE



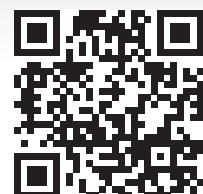
RAPIDO SMARTBOX BROCHURE



SANITARY SYSTEMS BROCHURE



KITCHEN BROCHURE



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For more information about Grohe Sense or any other Grohe product please contact Modern Plant. Our team of experts are on call to answer all your questions and provide you with advice to ensure your project is successful.

Web: [www.tapsandshowers.ie](http://www.tapsandshowers.ie) | Email: [sales@modernplant.ie](mailto:sales@modernplant.ie) | Tel: 01 461 4300

