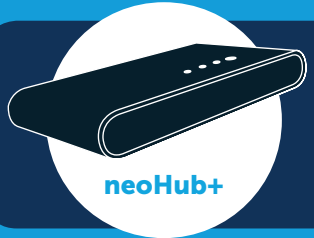
GS UNDERFLOOR HEATING

Thermostats & smart controls



Works with Apple HomeKit

UNDERFLOOR HEATING

HEAT PUMPS

SOLAR THERMAL

Smart, efficient control

GS UFH's thermostat range

GS UNDERFLOOR HEATING

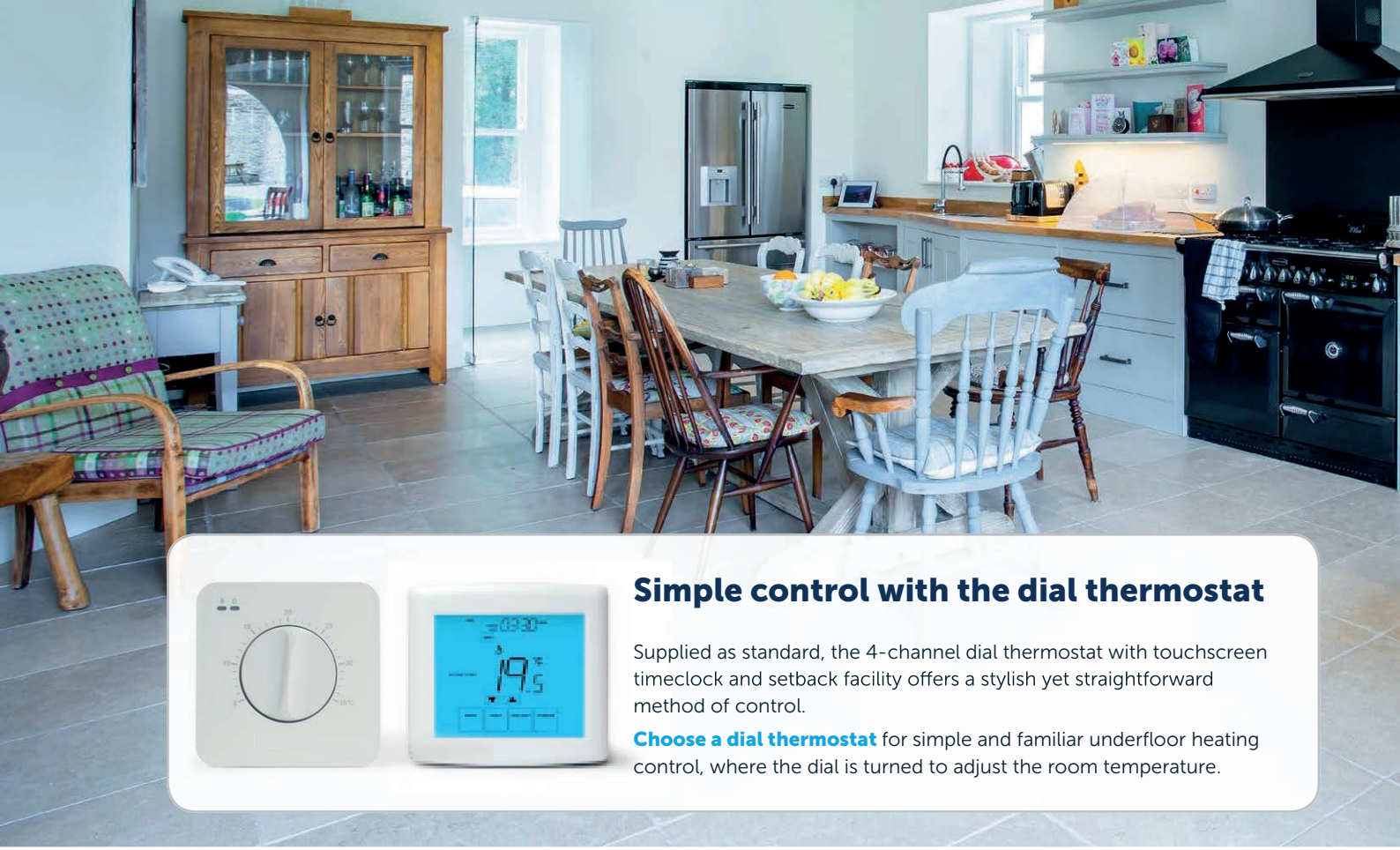
Efficient heating controls with area zoning can save up to 40% on energy bills.*

*When compared to an unzoned radiator system. (BEAMA White Paper, October 2013)

Did you know that effective control not only provides complete comfort, but also significantly reduces energy usage to create a more efficient heating solution? That's why every underfloor heating system designed by GS UFH includes intelligent zoning and individual programmable control as standard.

Our comprehensive range of thermostats offer solutions for both new build and retrofit projects, including:

- Internet-enabled thermostats for smart control via a smartphone or tablet
- The option to easily integrate with home automation systems, including Apple HomeKit
- A choice of hard-wired or wireless, battery-powered thermostats as well as standard, simple to use dial-type stats



Simple control with the dial thermostat

Supplied as standard, the 4-channel dial thermostat with touchscreen timeclock and setback facility offers a stylish yet straightforward method of control.

Choose a dial thermostat for simple and familiar underfloor heating control, where the dial is turned to adjust the room temperature.

Designed with intuitive menu navigation, operation and programming of the neo range is simple.

Programmable control for every project

Programmable neo thermostats offer flexible heating control for every type of project. Choose from the hard-wired neoStat, or the battery-powered, wireless neoAir – ideal for renovations. There is also a choice of colour: black, white or silver.

The hard-wired neoStat provides an improved level of control, in comparison to the dial thermostat, including room-by-room time and temperature settings.

The wireless neoAir offers the same functionality as the neoStat, but without the need to chase wires into the wall. This is a popular option for renovation projects.

As well as holiday, temperature hold and temperature over-ride functions, the neo thermostats offer:

The neo thermostats

The option to upgrade to smart control
The neo thermostats can be easily upgraded at any time to offer remote control via a smartphone or tablet – simply add the neoHub+.

Self-learning preheat
The neo thermostats cleverly calculate the amount of heat up time required to ensure warmth when needed, automatically adjusting throughout the year.

Key lock feature
Each thermostat can be 'locked' with a pin code to prevent others from editing the temperature settings.

Cyber security
All neo products have been subjected to stringent testing to ensure that they cannot be remotely accessed, conforming to the highest level of Zigbee protocol and Wifi security standards.

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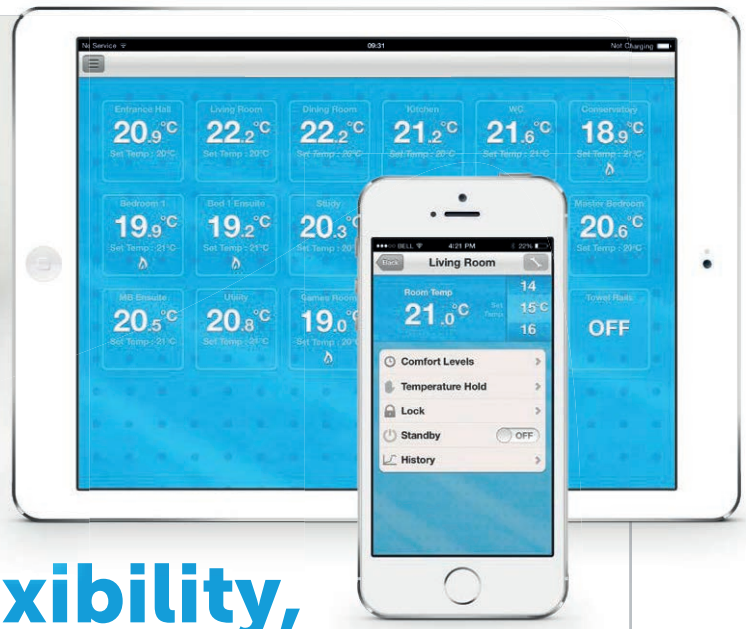

Smart control for complete flexibility, at home or on the go

Pair the neo thermostats with the neoHub+ to create a smart system for remote heating control from a smartphone or tablet.

The neoApp features

The smart neo system, using the neoHub+, offer all of the features of the neoStat or neoAir, plus:

Flexible heating control via smartphone or tablet
The neoHub+ acts like a wireless router, handling all of the network communication between the thermostats. It allows heating control via the neoApp on a range of smartphone and tablet devices.

Multi-user functionality
Several users can have access to control the heating with the neoApp.

Geo location
Sync the neoHub+ to work alongside a smartphone's location, automatically turning the heating off when the last person leaves the property and on again when the first person returns home.

Local control back-up
Should the internet connection fail, this back-up function means that the heating system can still be controlled.

Compatible with home automation systems
An open API means that the neo smart system, using the neoHub+, is fully compatible with home automation systems, including Apple HomeKit.

Mesh networking
Never experience poor connectivity thanks to the neoStat's mesh networking capability and the optional neoPlug that boosts signal throughout the property.

Simple set up

The neoHub+ is simple to set up and no specialist computer knowledge is required. All the neoHub+ needs is a direct connection to the property's internet router. Once set up, it even automatically downloads and installs updates, so the system is always operating on the latest software.

Choose the neoHub+ for remote control of the heating and hot water from any location. This option is also fully compatible with home automation systems.

Central control of heating and domestic hot water

Add a neoUltra to a smart neoStat or neoAir package for complete control of all heating and domestic hot water requirements from a central control point in the home.

Smart Package Plus+

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Control your smart thermostats with Apple HomeKit technology

Choose to control your market-leading, bespoke-designed GS UFH with advanced HomeKit home automation technology from Apple.

Works with Apple HomeKit

Apple HomeKit

Apple HomeKit technology provides an easy, secure way to control your home's lights, doors, thermostats and more from your iPhone, iPad or iPod touch.

Any GS UFH underfloor heating system with a neoHub+ can be controlled from the Apple iOS10 Home app or by using Siri voice control, allowing you to set HomeKit automations and remotely control your heating settings.

Siri voice control

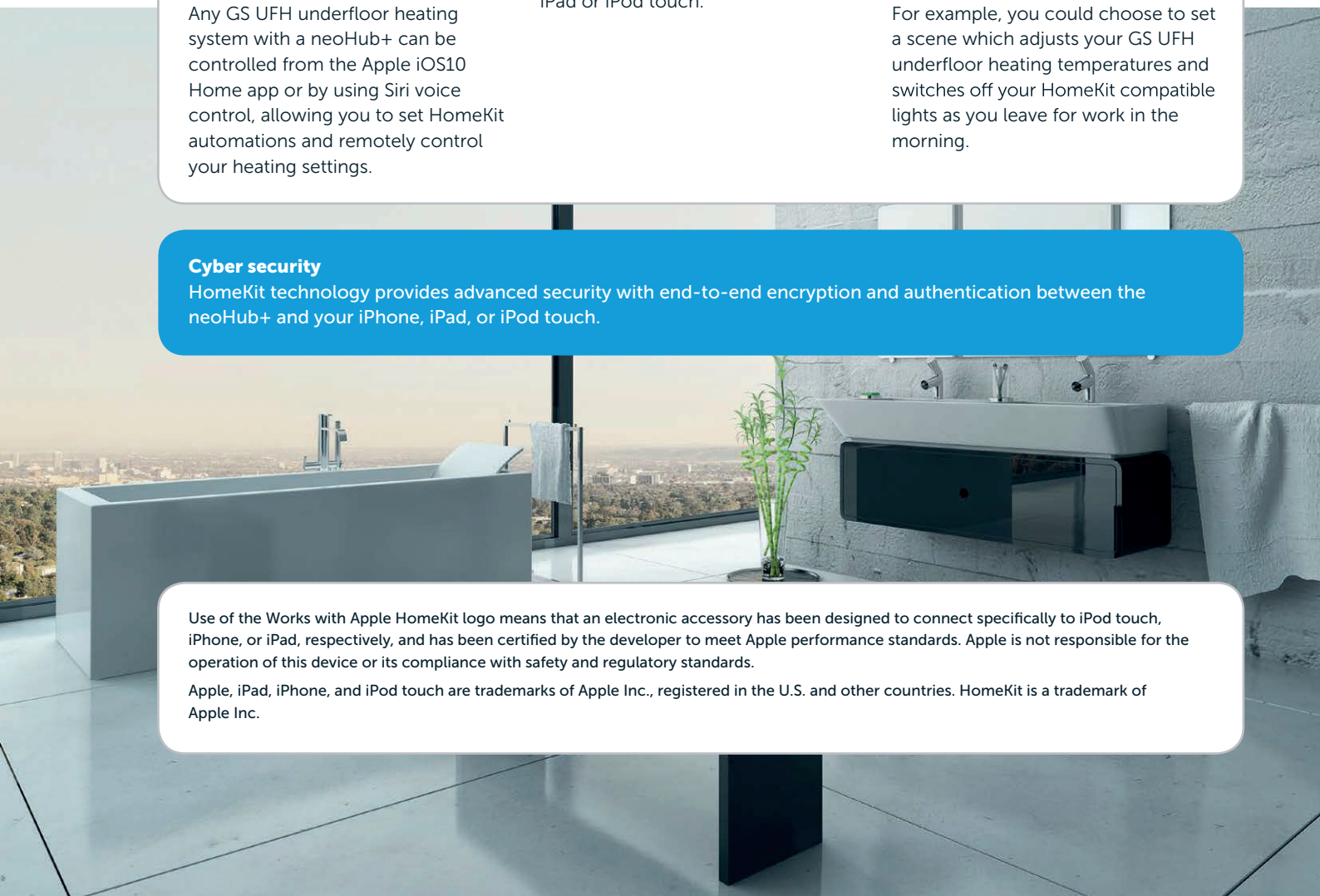
The neoHub+ responds to Siri, letting you request the current temperature, set a new temperature or temperature hold and turn standby on or off directly from your iPhone, iPad or iPod touch.

Set scenes in the Home app

You can also set scenes or automations in the Home app which change the settings of several HomeKit accessories simultaneously, with one command or trigger.

For example, you could choose to set a scene which adjusts your GS UFH underfloor heating temperatures and switches off your HomeKit compatible lights as you leave for work in the morning.

Cyber security
HomeKit technology provides advanced security with end-to-end encryption and authentication between the neoHub+ and your iPhone, iPad, or iPod touch.



Use of the Works with Apple HomeKit logo means that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Apple, iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. HomeKit is a trademark of Apple Inc.

Neo smart packages

	neoHub+	neoStat	neoUltra	neoPlug if necessary	Compatible with Apple HomeKit
neoStat Smart Package	✓	✓			✓
neoStat Smart Package Plus+	✓	✓	✓		✓
neoAir Smart Package	✓	✓		✓	✓
neoAir Smart Package Plus+	✓	✓	✓	✓	✓

Hard-wired neoStat Smart Package - Pair a neoHub+ with hard-wired neoStats to unlock remote, flexible heating control from a smartphone or tablet via the neoApp.

Hard-wired neoStat Smart Package Plus+ - All the benefits of the neoStat smart package, plus a neoUltra for complete control of all heating and domestic hot water requirements from a central control point in the home.

Wireless neoAir Smart Package - Pair a neoHub+ with wireless neoAir thermostats to unlock remote, flexible heating control from a smartphone or tablet via the neoApp. This package includes the appropriate number of neoPlug signal boosters for the system, to ensure uninterrupted heating control around the home.

Wireless neoAir Smart Package Plus+ - All the benefits of the neoAir smart package, plus a neoUltra for complete control of all heating and domestic hot water requirements from a central control point in the home.

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Thermostat specification

THERMOSTAT SPECIFICATION	DIAL	NEO	
Thermostat	**DS+timeclock**	**neoStat**	**neoAir**
Case colour themes	White	White, black or silver	White, black or silver
LCD back colour	-	Blue	Blue
Temp. range	5-35˚C	5-35˚C	5-35˚C
5/2 day programming	✓	✓	✓
7 day programming	✓	✓	✓
24-hour programming	-	✓	✓
Heating periods	4	4	4
Optimum start	-	✓	✓
Hot water timer feature	✓	(optional extra)	✓
Holiday function	✓	✓	✓
Keylock function	✓ (timeclock)	✓	✓
Temp. hold function	-	✓	✓
Temp. override	-	✓	✓
Temp. override limit	-	✓	✓
Output delay	-	✓	✓
Frost protection	✓	✓	✓
˚C/˚F option	-	✓	✓
Built in air sensor	✓	✓	✓
Remote air sensor option	✓	✓	✓
Built in air & floor sensor	✓	✓	✓
Remote air & floor sensor	-	✓	-
Accuracy	+/-1.5˚C	+/-1˚C	+/-1˚C
Adj. switching differential	-	✓	✓
Power supply	230v	230v	4 x AAA batteries
Wireless boiler control	-	-	✓ (option)
Wireless range (neoAir only)	-	-	100m max.
Battery lifetime (neoAir only)	-	-	1 year (typical)
App. control via neoHub+ (option)	-	✓	✓
neoPlug supplied with neoHub+	-	✓ (option)	✓ 1 to 4***
Dimensions (mm)	92x92x20	85x85x15	85x86x26
Backbox depth (mm)	35	35	0
Suitable for use with heat pumps?	Yes*	Yes**	Yes**
Power cable to thermostat	4-core + Earth	3-core + Earth	None
ErP class		Class 1	

** No timeclock is supplied when used with a GS UFH heat pump system.*

*** Programmable thermostats are often chosen for their aesthetic and ergonomic appeal, but it is advised that the timing function is not used in conjunction with a supplied heat pump. It is also advised that the App feature of neo is not the best way to remotely control a heat pump system, instead NIBE Uplink should be used.*

**** neoPlug appliance controller and wireless signal booster. Number of neoPlugs supplied varies with the size of the neoAir + neoHub+ system. Not normally required or supplied for other system configurations.*

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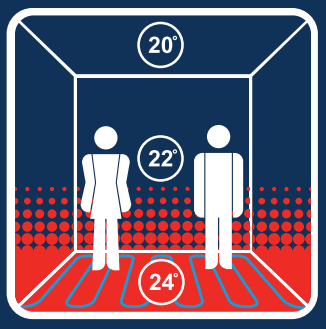

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