

THERMSAVER'S HEATING CONTROLS

BUILDING REGULATIONS/MINIMUM STANDARDS BY LAW

Part L of the 2013 Building Regulations has an impact on the design and use of heating and its controls within both new and existing dwellings and at Thermsaver we always have the highest standards in mind. Here is some guidance on how these regulations impact upon dwellings:

Dwellings over 150m²	With Hot Water Cylinder	Boiler Interlock
		At least two space heating circuits, each with independent time control, a room thermostat and TRVs
		A hot water circuit with independent time control and a cylinder thermostat.
	No Hot Water Cylinder	Boiler Interlock
Dwellings up to 150m²	With Hot Water Cylinder	Boiler Interlock
		A space heating circuit with independent time control, a room thermostat and TRVs
		A hot water circuit with independent time control and a cylinder thermostat
	No Hot Water Cylinder	Boiler Interlock
		A space heating circuit with independent time control, a room thermostat and TRVs.
		A space heating circuit with independent time control, a room thermostat and TRVs.

THERMSAVER'S HEATING CONTROL RANGE

Thermsaver have an extensive network of partners and full-time service engineer's on-call 24 hours a day. We never have and never will hand over any installation or maintenance work to 3rd parties. We also hold all spare parts for our products within our own depots, ensuring that our clients will always get the service they deserve.

HEATMISER RANGE

Our Heatmiser range of controls and thermostats was designed in the UK. Heatmiser was formed in 1968 in Lancashire and by the 1980s, the company had designed an all-new, user-friendly heating device that proved there was a market for simple to use controls.

HEATMISER SLIMLINE THERMOSTATS

- 230v Models for standard systems
- 12v Network Models for those looking to control their system centrally or remotely over the internet
- Electric Floor Models for those with Electric Floor Heating
- Available in three plastic colour finishes: White, Silver and Black (selected models).

FEATURES	230V MODELS	12V NETWORK MODELS	ELECTRIC FLOOR MODEL
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Floor Sensing Mode	N	N	N	N	N	N	Y	Y	y	
Floor Sensing Included	N	N	N	N	N	N	Y	Y	Y	
Max Switching Current	3A	3A	3A	3A	3A	3A	3A	16A	16A	
Accuracy	+/-1°C									
Adjustable Switching Differential	0.5-3°C									
Supply	230VAC				12VDC				230VAC	

WIRELESS THERMOSTATS

- Available in the Touchscreen Wireless Thermostat Series
- Rechargeable battery (via USB)
- Slimline Wireless Thermostat Series

FEATURES	AIR ONLY MODELS			FLOOR MODELS		AIR ONLY MODELS						FLOOR MODELS	
	SLIMLINE WIRELESS SERIES					TOUCHSCREEN WIRELESS SERIES							
	DT-W	PRT-W	PRTHW-W	DT-EW	PRT-EW	DT-WTS	DT-UWTS	PRT-WTS	PRT-UWTS	PRTHW-WTS	PRTHW-UWTS	DT-EWTS	PRT-EWTS
COMPATIBLE RECEIVERS													
RC1-W Compatible	Y	Y	Y	N	N	N	N	N	N	N	N	N	N
RC2-W Compatible	N	N	N	Y	Y	N	N	N	N	N	N	N	N
RC1-WTS Compatible	N	N	N	N	N	Y	N	Y	N	Y	N	N	N
RC2-WTS Compatible	N	N	N	N	N	N	N	N	N	N	N	Y	Y
UH1-W Compatible	Y	Y	Y	N	N	N	Y	N	Y	N	Y	N	N
Temperature Range	05-35°C 41-95°F												
5/2 Day Programming Mode	N	Y	Y	N	Y	N	Y	Y	Y	N	Y	N	Y
7 Day Programming Mode	N	Y	Y	N	Y	N	Y	Y	Y	N	Y	N	Y
Number of Heating Levels	1	4	4	1	4	1	4	4	4	1	4	1	4
Optimum Start	N	Y	Y	N	Y	N	Y	Y	Y	N	Y	N	Y
Number of HW Times	0	0	4	0	0	0	0	4	4	0	0	0	0
Holiday Function	N	Y	Y	N	Y	N	Y	Y	Y	N	Y	N	Y
Keylock Function	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Temperature Hold	N	Y	Y	N	Y	N	Y	Y	Y	N	Y	N	Y
Temperature Override	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Frost Protection	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
°C/°F Options	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Built-in Air Sensor	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Remote Air Sensor Connection	N	Y	N	Y	Y	N	N	N	N	N	N	N	N
Remote Air Sensor Included	N	N	N	N	N	N	N	N	N	N	N	N	N
Floor Sensing Mode	N	N	N	Y	Y	N	N	N	N	N	N	Y	Y
Floor Sensor Included	N	N	N	N	N	N	N	N	N	N	N	N	N
Accuracy	+/-1°C												

Adjustable Switching Differential	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Wireless Fail Safe Function	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
RF Frequency	868MHz					433MHz 868MHz				433MHz
Operational Radio Range (Open Space)	Up to 100M									
Power	2xAAA					Rechargeable Battery (Mini USB Connection)				
Battery Lifetime	Typically 1 Year					Typically 6-8 Months				
USB Power Lead Included	N					Y				
Mounting Type	Wall					Wall/Desk Stand				
Dimensions	85x98x24 (LHD mm)					110x100x20 (LHD mm)				

WIRELESS RECEIVERS

Ideally suited to electric and water underfloor heating

- Suitable for conventional radiator systems

FEATURES	SLIMLINE THERMOSTAT RECEIVERS			TOUCHSCREEN THERMOSTAT RECEIVERS	
	RC1-W	RC2-W	UH1-W	RC1-WTS	RC2-WTS
Mounting Type	Flush	Flush	Surface	Flush	Flush
Compatible With	DT-W, PRT-W, PRTHW-W, WiFi RF Models (Excluding-PRT-ETS WiFi RF)	DT-EW, PRT-EW, PRT-EWTS WiFi RF	DT-W, PRT-W, PRTHW-W, DT-UWTS, PRT-UWTS, PRTHW-UWTS	DT-WTS, PRT-WTS, PRTHW-WTS	DT-EWTS, PRT-EWTS
Number of Zones	2 Heating Zones or 1 Heating & Hot Water Zone	1 Electric Floor Heating Zone	8 Water Underfloor Heating or Radiator Zones	2 Heating Zones or 1 Heating & Hot Water Zone	1 Electric Floor Heating Zone
Fail Safe Function	Y	Y	Y	Y	Y
Power	230VAC				
Relays	2	1	8	2	1
Rating	3A	16A		3A	16A
Optional Extendable Aerial	N	N	Y	N	N
Operating Frequency	868 MHz			433 MHz	
Operating Radio Range (Open Space)	100M				
No of Receiver Addresses	32	32	9	10	10
Pump Output	N	N	Y	N	N
Zone, HW & Pump Output Test Mode	N	N	Y	N	N
Boiler Enable	N	N	Y	N	N
HW Cylinder Thermostat Connection	N	N	Y	N	N
Per Zone UFH or Radiator Selection	N	N	Y	N	N

We also stock the Wireless 230v 8 Zone Wiring Centre

- Designed to be used in conjunction with our compatible wireless thermostats.
- Provides central switching and is therefore ideally situated next to the underfloor heating manifold.
- Eight zones can be controlled as well as providing an output for a hot water cylinder.

- On demand from any zone, 230v output provided to switch the relevant zone actuators, underfloor heating pump and valve.
- Volt free connection supplied for the boiler, making it compatible with almost all types of boilers.
- Up to six actuators can be connected to each zone. External aerial is available for use when the UH1-W is being mounted in a metal cupboard or when the wireless signal is restricted.

HEATMISER NeoStat RANGE

- Available in Glacier White and Sapphire Black
- Sensor housing available, ideal for use in en-suites to house the remote sensor probe.
- Remote Sensor Probe available, used to measure air and flow temperature. Supplied with a 3 metre cable which can extend to 20m where necessary.

FEATURES	STANDARD MODELS		ELECTRIC FLOOR MODEL
	neoStat	neoStat-hw	neoStat-e
Temperature Range	05-35°C 41-95°F	N/A	05-35°C 41-95°F
Blue Back Lit Screen	Y	Y	Y
Non-Programmable Mode	Y	N	Y
5/2 Day Programming Mode	Y	Y	Y
7 Day Programming Mode	Y	Y	Y
24 Hour Programming Mode	Y	Y	Y
Number of Heating Levels	4	N/A	4
Optimum Start	Y	N	Y
Number of HW Times	0	4	0
Holiday Function	Y	Y	Y
Temperature Hold Function	Y	N	Y
Temperature Override	Y	N	Y
Temperature Override Limit	Y	N	Y
Frost Protection	Y	N	Y
Networking Facility	Y	Y	Y
°C/°F Options	Y	N	Y
Remote Air Sensor Connection	Y	N	Y
Built-in Air Sensor	Y	N	Y
Floor Sensing Mode	Y	N	Y
Floor Sensor Included	N	N	Y
Max Switching Current	3A	3A	16A
Accuracy	+/-1°C	N/A	+/-1°C
Adjustable Switching Differential	+/- 1-3°C	N/A	+/- 1-3°C
Supply	230VAC		
Output	Volt Free Contact	Changeover	230VAC
Installed Dimensions	85x85x15 (LHD mm)		
Weight	128g		

HEATMISER WIRING OPTIONS

MULTI-ZONE CONTROL

Neo allows you to control your heating from anywhere using your smartphone or tablet.

MOUNTING TYPE	CONNECTIVITY STANDARD	LOCK FACILITY	SmartPhone App	DIMENSION
Flush Mounting	Wireless Mesh Network Technology	Yes – All models	iPhone/iPad Android Tablet & Phone Kindle Devices	85x85x40 (LHD mm)

- Local Control (In case of loss of Broadband Connection) - If your internet connection fails, the heating system can still be operated within the home by using the thermostat keypad. As soon as the internet connection is restored, your neoHub will automatically logon to the Cloud Server re-enabling app control.
- API - Third Party Integration Our published API (JSON) makes it easy for third party integration companies to integrate our Neo Network System with leading home automation brands products from companies such as Control4 and Crestron.
- Multi-Locations - During the installation of the app, you are prompted to create an account on the Heatmiser Cloud Server after which multiple locations can be created. Logging into to your account from another device will present all of your Locations for quick and easy access.
- Multi Zone - The Heatmiser Neo Network system has been built from the ground up with multi zone homes in mind. The neoHub coordinates the data between each neoStat thermostat on the network.
- Plug and Play - The neoHub connects directly to a spare port on your router, obtaining an IP Address and joining itself to your home network. It has been designed to be simple to install and setup, and is compatible with broadband connections with Dynamic IP Addresses. The neoHub connects to our Cloud Server eliminating any complex setup requirements including port forwarding.

HEATING & RADIATOR SYSTEMS

230V Underfloor & Radiator Systems With Set Back Facility

CONNECTIONS FOR	COMPONENT DIMENSIONS	PROVIDING	PRODUCT LIST
8x Zone Output (suitable for 230v actuators) 230v Output for UFH Pump & Valve Control Volt Free Boiler Enable	Time Clock 110x100x17mm (L,H,D) Set Back Thermostat 92x92x17mm (L,H,D) Wiring Centre 290x200x70mm (L,H,D)	Wiring centre, controlling up to 8 zones 4 Zone Master Time Clock 230v Set Back Thermostat in each room	8 Zone Wiring Centre Part Ref: Heatmiser UH3 4 Zone Time Clock Part Ref: Heatmiser TM4 Set Back Thermostat Part Ref: Heatmiser DS-SB

- Simple Effective Control - Offers simple but effective control of up to eight zones*. The UH3 wiring centre is the hub of this system and is designed to work with our four channel 230v Time Clock (TM4) and 230v Set Back Thermostat (DS-SB). On board the UH3 are two heating time channels. Each zone allows you to specify which time channel it should follow. Two additional time channel connections are provided for hot water control or other auxiliary devices.
* Additional zones can be controlled with the use of a second UH3
- Set Back Function - A simple way of reducing energy costs by automatically reducing the set temperature when the heating is timed to be off. Standard dial thermostats

are either on or off according to the time clock controlling the system. A Set Back Thermostat is different. It will follow the temperature set on the dial during the timed period and will automatically reduce the set temperature by 4°C when its timed to be off.

- Radiator Zone Control - A simple slide switch makes zone eight suitable for controlling a radiator zone. When used for controlling radiators, zone 8 does not enable the underfloor heating pump, valve and boiler.
- Neon Indication Window - A window is provided on the UH3 allowing you to see the power, zone, boiler and valve status without the need to remove the cover.
- Simple Connectivity - The UH3 allows the connection of up to eight 230v room thermostats. On demand from any zone, a 230v output is provided to switch the relevant zone actuator, underfloor heating pump and valve. A volt free connection is supplied for the boiler, making it compatible with almost all types of boilers.
- 230v Models Are designed to work with our UH3 wiring centre and dial thermostat with set back function, providing simple but effective control.

WIRELESS WATER UNDERFLOOR HEATING & RADIATOR SYSTEMS

PROVIDING	PRODUCT LIST	OPTIONAL PRODUCTS
Wiring centre, controlling up to eight zones Wireless thermostat in each room	8 Zone Wiring Centre (expandable up to 72 Zones) Part Ref: UH1-W Compatible wireless thermostat E.g: Wireless Slimline Thermostat Part Ref: PRT-W Wireless TouchScreen Thermostat Part Ref: PRT-UWTS	External Aerial Part Ref: EA1 Slimline Wireless Repeater Part Ref: WR1

- Simple Pairing Process - Up to nine UH1-W can be used within the same building, allowing control of up to 72 zones. Each UH1-W has an address setting, clearly marked on the PCB. This address, along with the relevant zone number is configured in the thermostat and that's it - a simple to install, setup and operate system.
- Hot Water Control - The UH1-W also takes care of the hot water. A cylinder thermostat connection and 230v hot water valve output are provided. The PRTHW-W / PRTHW-UWTS is our heating and hot water model, offering time and temperature control of the heating and time control of the hot water.
- External Aerial - Our external aerial is designed to work with our UH1-W Wireless Receiver. Should the UH1-W be installed in a metal cupboard or where the RF signal is weak, an external aerial can be used. This 3 meter long aerial is equipped with a magnetic base for simple installation. It is also perfect for extending the RF coverage within your property.
- Connectivity - The UH1-W works with up to eight compatible wireless thermostats. On demand from any zone, a 230v output is provided to switch the relevant zone actuator, underfloor heating pump and valve. A volt free connection is supplied for the boiler, making it compatible with almost all types of boilers.
- Radiator or Underfloor - A software option in the thermostat allows you to configure which zones are underfloor heating and which zones are radiators. Radiator zones will not enable the underfloor heating pump and underfloor heating valve where there is a call for heat.

LOW VOLTAGE, NETWORK CONTROL SOLUTION

PROVIDING	PRODUCT LIST	CABLE TYPE	OPTIONAL PRODUCTS
Wiring Centre, controlling up to 8 zones 12v Programmable Thermostats	8 Zone Wiring Centre (expandable up to 32 Zones) Part Ref: Heatmiser UH1	Belden 9538 or Cat5(e)-ftp	Internet Control Part Ref: NetMonitor / NetMonitor +

in each room Optional Central Control and Internet Access * iOS and Android devices supported	Slimline Thermostat Part Ref: Heatmiser PRT-N TouchScreen Thermostat Part Ref: Heatmiser PRT-NTS		Central Control Part Ref: Heatmiser TouchPad
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- Complete Network Control – The Heatmiser deluxe heating system offers control of up to 32 zones. What’s more, it provides the ability to control the entire heating system centrally, with the TouchPad, or from anywhere in the world with the NetMonitor. Designed to be used in conjunction with our Slimline or TouchScreen 12v Network Thermostats, our deluxe heating system really is a complete package for those wanting superior control of their heating system.
- Hot Water Control - The UH1 also takes care of the hot water. A cylinder thermostat connection and a 230v hot water valve output are provided. Controlling the hot water from the UH1 makes sense, not only because it simplifies the wiring, but also because it enables you to control your hot water centrally from the TouchPad and remotely from the NetMonitor.
- Network Connection - Network ports are provided allowing easy connection to our network products.
- Simple Connectivity - The UH1 allows the connection of up to eight 12v Network Thermostats. On demand from any zone, a 230v output is provided to switch the relevant zone actuator, underfloor heating pump and valve. A volt free connection is supplied for the boiler, making it compatible with almost all types of boilers.
- Radiator Zone Control - A simple slide switch makes zone 8 suitable for controlling a radiator zone. When used for controlling radiators, zone 8 does not enable the underfloor heating pump or valve.
- Smartphone Control - Add the NetMonitor or NetMonitor + to your system and take control of your multi-zone system from your smartphone.

MAINS VOLTAGE NETWORK SYSTEM

CONNECTIONS FOR	COMPONENT DIMENSIONS	PROVIDING	PRODUCT LIST
8 x Zone outputs (suitable for 230v actuators) 230v Output for UHF Pump and Valve control Volt free Boiler Enable	UH3 Wiring Center 290x200x70mm (L,H,D)	Wiring centre , controlling up to 8 zones 8 Neo Mains Network Thermostats	8 Zone wiring centre Part ref: Heatmiser UH3 7 x neoStat in Heating mode 1 x neoStat in Timer mode NeoHub

- Neo Network - The Neo Network System is designed to provide reliable communication of the thermostat data whilst at the same time providing an extended communication range. Each neoStat thermostat acts as a repeater on the network, helping to eliminate range issues which are common on standard RF systems.
- Easy Upgrade - Customers with existing 230v thermostats can upgrade to the Neo Network System and take control of their system from anywhere. The neoHub gateway connects the neoStats to the internet for access via a Smartphone or Tablet both in the home and remotely from anywhere in the world.
- Simple Connectivity - The UH3 allows the connection of up to eight 230v thermostats. On demand from any zone, a 230v output is provided to switch the relevant zone actuator, underfloor heating pump and valve. A volt free connection is supplied for the boiler, making it compatible with almost all types of boilers.

- Radiator Zone Control - A simple slide switch make's zone eight suitable for controlling a radiator zone. When used for controlling radiators, zone 8 does not enable the underfloor heating pump, valve and boiler.
- Neon Indication - A window is provided on the UH3 allowing you to see the power, zone, boiler and valve status without the need to remove the cover.
- NeoStat Thermostat - Flexibility The neoStat can be set to operate in heating or timer mode, allowing the installer to select on installation if the thermostat will be used to control a heating zone or a timed appliance, such as the hot water or perhaps a towel rail.
- 230v Models - Are designed to work with our UH3 wiring centre and dial thermostat with set back function, providing simple but effective control.