

Wiser™



Wiser 2nd Generation for heating and smart home automation

wiser.draytoncontrols.co.uk

Drayton

by **Schneider** Electric

Introducing Wiser 2nd Generation



Take home heating and automation to the next level with our new range of Hubs and smart home products. Designed for UK heating systems and incorporating OpenTherm and Matter functionality, Wiser 2nd Generation is the first step towards full home energy management.

With 75 years of engineering expertise and UK manufacturing, Wiser makes smart home heating, automation and energy management simple and affordable.

Personalised systems

- Smart heating and hot water control
- Simple zoning with radiator thermostats
- Incorporate electrical and underfloor heating
- Add smart home devices for automated safety and security
- Schedule electrical appliances using the Wiser Plugs

What makes **Wiser** wiser?



Flexibility

Buildable system, add devices at any time



Multi-zoning

Add Radiator Thermostats, UFH & EHS as required



Matter Compatibility

Works with existing Matter ecosystems



Smart Modes

Eco Mode, Away Mode, Comfort Mode



Automation

Create custom automations for any eventuality



OpenTherm

Digital boiler interface enabling more efficient control



Insights & Heat Report

Monitor system activity



Electric load control

Switch loads up to 3200W

The all-in-one solution for home automation and efficiency.



Room
Thermostat



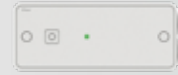
Temperature &
Humidity Sensor



Radiator
Thermostat



Underfloor
Heating Controller



Electrical
Heat Switch

Temperature control



Hot water & heavy load control



Power
Micro Module



Lights & shutter control



Shades Control
Micro Module



LED Dimmer
Micro Module



Safety & security



Water Leakage
Sensor



Motion Sensor



Smoke Alarm



Window & Door Sensor



Smart Plug



Wiser
Smart and Sustainable Homes



Wiser Room Thermostat

- Wireless with a handy table stand & wall clip
- Works with Amazon Alexa and the Google Assistant
- Programme via the app
- Device lock
- Also available in anthracite



Wiser Radiator Thermostat

- Ultra-quiet operation
- Audible feedback on twist-top boost
- More than 2 years battery life with included alkaline batteries under typical use cases
- Compatible with Ni-Mh rechargeable batteries
- Mounts on over 95% of existing radiator valves
- Works with Amazon Alexa and the Google Assistant
- Open-window detection
- Time & temperature settings via Wiser Home App
- ErP rating 3.5%
- Multiple sensors for high accuracy
- Automatic valve protection runs
- Device lock
- Zigbee certified
- Available in white and anthracite

new

Wiser Radiator Thermostat

- Ultra-quiet operation
- 2 years battery life
- Rechargeable batteries
- Mounts on 95% of radiator valves
- Open window detection
- Zigbee certified



Complete home heating control.



Use with
Drayton
Thermal
Actuators

Wiser Underfloor Heating Controller

- Set up and pairing via the Wiser Home app
- Flexible choice of zones
- Heating and cooling functionality
- 30 sec delay between switching relays
- Can be tested without installing a Hub[®]
- Add up to 3 controllers and 16 zones
- Voice assistant control



Use with
Wiser Room
Thermostat

Wiser Electrical Heat Switch

The new Wiser Electrical Heat Switch has a 16A relay for electrical heating and because it's hard wired it can act as a range extender for the whole Wiser system.

Suitable applications include:

- Electric radiators
- Electric towel rails
- Electrical underfloor heating

The Wiser Home app

The app has been designed to make your life simple. Step-by-step commissioning instructions guide you through the whole process in just a few minutes.

The user interface has been designed to be intuitive so your customer will have no problem taking control of their heating. Set up can be done within seconds and programming couldn't be easier. Boost, set point and room selections can all be accessed from the home screen.

Features



Smart Modes

Activate Away Mode and Eco Mode for maximum energy savings.



Matter Compatibility

Link Wiser to existing Matter ecosystems.



Schedules

Set time and temperature schedules for every device to ensure full multi-zoning efficiency.



Insights & Heat Report

Track the system performance to adapt heating schedules and settings to save energy.



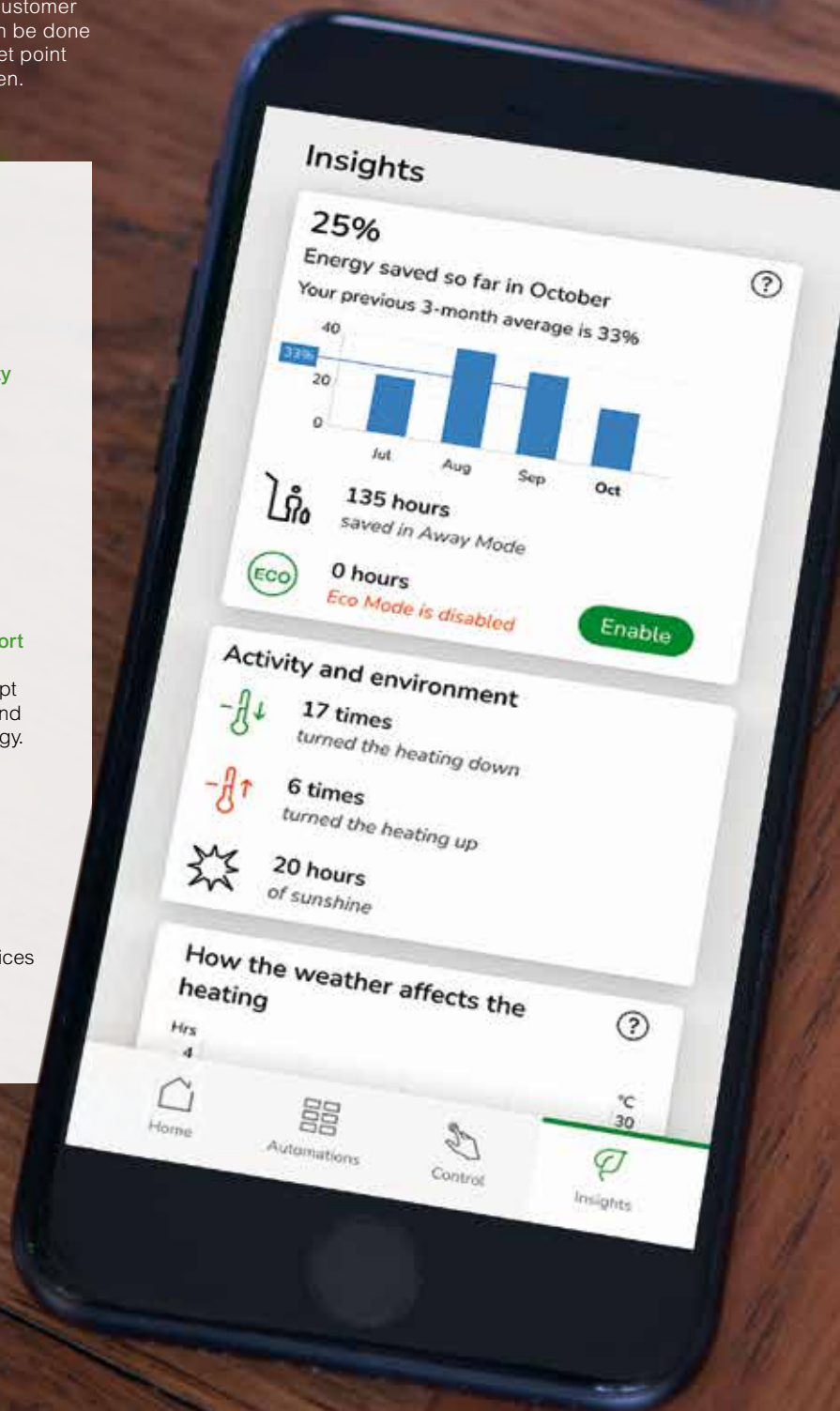
Boost/cancel all

Boost all devices in the system or cancel all overrides - enables complete system testing with the tap of a button.



Signal Strength

Check the signal strength between devices and the Hub.



Download in
the App Store
– search
Wiser Home

Taking care of up to 30% off energy bills*

Over 50% of a home's energy consumption is used for heating & hot water, Wiser can have a big impact on energy use and bills.

Research by BEAMA shows that upgrading from basic heating controls to a smart multi-zone system like Wiser can offer savings of up to 30% on an average heating and hot water bill.

Furthermore, data from Wiser users shows that utilising smart modes such as Away Mode and Eco Mode can save an additional 16% per year.

Earn rewards
with demand response
events thanks to our
partnership with

equiwatt



Smart Thermostat
18% saving



Individual Room Control
19% saving



Smart Modes
16% saving



“Alexa,
activate
date night
moment.”

new

Wiser smart home devices enabling automation

Our brand new smart home devices enable simple automations and security activations via the Wiser Home app. Devices can be grouped together to activate simultaneously creating Moments and Automations and everything can also be controlled via voice activation using Amazon Alexa or the Google Assistant. Wiser is also a Matter bridge which can be linked to any existing Matter ecosystem.



Smoke Alarm

Battery powered smoke alarm which can be linked with up to 40 other Wiser Smoke Alarms. Delivers smartphone alerts when smoke or heat is detected.



Window &
Door Sensor

Detects when windows or doors are opened or closed, enabling energy saving automations, such as turning the heating off when a window is opened.



Temperature &
Humidity Sensor

A low-cost alternative to the Wiser Room Thermostat. Can be paired with other Wiser devices to automate temperature and humidity related actions.



Water Leakage
Sensor

Detects the presence of water and generates an audible alarm and smartphone alert. Typically used in leak prone areas such as under baths and sinks.

Wiser Plug

Enabling you to set schedules for home appliances from the Wiser Home app. As well as being able to control your home appliances remotely, the Wiser Plug also has a built-in range extender to enable connectivity to devices further away from the Hubs.



Motion Sensor

Detects motion and light levels and can be paired with other Wiser devices, such as the Wiser plug or Wiser LED Dimmer, to turn on lights when motion is detected.



**LED Dimmer
Micro Module**

Enables smart control, automation and scheduling of LED lighting via the Wiser Home app and voice control via smart speakers. Install with a momentary switch for in-room control.



**Shades Control
Micro Module**

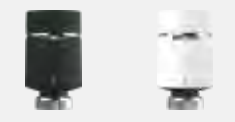
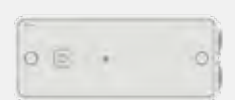
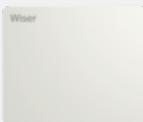
Enables smart control, scheduling and automation of motorised blinds and curtains via the Wiser Home app and voice control via smart speakers.



**Power Micro
Module**

Enables smart control, scheduling, automation and energy monitoring of resistive loads up to 3000W via the Wiser Home app, or with voice control via smart speakers.

The Wiser options

Product Pack	Pack Contents	Description	Part Number
Wiser 2nd Generation Thermostat Kit 1 	1 x 1 Channel 2nd Generation Hub [®] 1 x Room Thermostat 1 x Installation manual 2 x AA batteries	Thermostat Kit 1 provides smart control of heating for combi boilers either via OpenTherm or relay switching. It can also interface with heat pumps to control heating according to heat demand. Connect Wiser radiator and room thermostats for independent room scheduling and smart control via the Wiser Home app and smart speakers. Connect Wiser Smart Home devices for smart home automation and security.	CCTFR6901G2D
Wiser 2nd Generation Thermostat Kit 2 	1 x 2 Channel 2nd Generation Hub [®] 1 x Room Thermostat 1 x Installation manual 2 x AA batteries	Thermostat Kit 2 provides smart control of heating and hot water for conventional boilers with a separate hot water cylinder, via relay switching. It can also interface with heat pumps to control heating according to heat demand. Connect Wiser radiator and room thermostats for independent room scheduling and smart control via the Wiser Home app and smart speakers. Connect Wiser Smart Home devices for home automation and security.	CCTFR6902G2D
Wiser 2nd Generation Thermostat Kit 3 	1 x 3 Channel 2nd Generation Hub [®] 2 x Room Thermostats 1 x Installation manual 4 x AA batteries	Thermostat Kit 3 provides smart control of 2 heating zones and hot water, via relay switching. It can also interface with heat pumps to control heating according to heat demand. Connect Wiser radiator and room thermostats for independent room scheduling and smart control via the Wiser Home app and smart speakers. Connect Wiser Smart Home devices for home automation and security.	CCTFR6903G2D
Wiser 2nd Generation Multi-Zone Kit 1 	1 x 1 Channel 2nd Generation Hub [®] 1 x Room Thermostat 2 x Radiator Thermostats White 1 x Installation manual 6 x AA batteries	Multi-zone Kit 1 with two radiator thermostats to start zoning your system, provides smart control of heating for combi boilers either via OpenTherm or relay switching. It can also interface with heat pumps to control heating according to heat demand. Control the room thermostat and radiator thermostats via the Wiser Home app. Add more radiator valves to create more independent zones.	CCTFR69041G2D
Wiser 2nd Generation Multi-Zone Kit 2 	1 x 2 Channel 2nd Generation Hub [®] 1 x Room Thermostat 2 x Radiator Thermostats White 1 x Installation manual 6 x AA batteries	Multi-zone Kit 2 with two radiator thermostats to start zoning your system provides smart control of heating and hot water for conventional boilers with a separate hot water cylinder, via relay switching. It can also interface with heat pumps to control heating according to heat demand. Set schedules for the room thermostat, radiator thermostats and hot water via the Wiser Heat app. Add more radiator valves to create more independent zones.	CCTFR69042G2D
Wiser Radiator Thermostat 	1 x Radiator thermostat 1 x M30x1.5mm ring nuts 1 x Drayton valve adaptors 1 x Danfoss RA valve adaptors 2 x AA batteries	New improved design, with Ultra-quiet operation, Extended battery life, compatible with Ni-Mh rechargeable batteries, simple twist control to boost. Add additional single radiator thermostats to any Wiser system.	White - WV704R0A6902 Anthracite - WV704R0A6901
Wiser Room Thermostat 	1 x Room thermostat 1 x Thermostat stand 1 x Thermostat wall bracket 2 x AA batteries	Additional room thermostat - add to rooms with radiator thermostats as a convenient way to view and change the room temperature. Works with all Wiser kits.	White - WN704R0S0902 Anthracite - WN704R0S0901
Wiser Plug 	1 x Wiser Plug	Add up to 20 plugs to any system to enable remote scheduling of your home electrical appliances via the Wiser Home app.	WB704H1A0902
Wiser Underfloor Heating Controller 	1 x Underfloor Heating Controller 1 x DIN rail 1 x Remote antenna	Add this underfloor heating controller to your existing system to control UFH and radiators via the Wiser Home app. One room thermostat is required per zone. Works with all Wiser kits.	WF762F1A0902
Wiser Electrical Heat Switch 	1 x Electrical Heat Switch 1 x Accessories pack (screws, cable, clamps, plastic screw caps)	Add this electric heat switch to control electric radiators, electric towel rails, electric UFH via the Wiser Home app.	WE714U1A0902
Wiser Remote Floor Sensor 	1 x Remote temperature sensor	This remote temperature sensor will be required if you are fitting electrical underfloor heating and using the Wiser Electrical Heat Switch. You will also need a Wiser Room Thermostat for temperature control.	193720
Wiser Non-relay 2nd Generation Hub 	1 x Wiser Non-relay 2nd Generation Hub 1 x Power supply with AC/DC adaptor and 1.8m cable 4 Feet	Suitable for non-relay heat emitters and Wiser Devices. Connect with Wiser smart devices to enable Smart Home security and automation via the Wiser Home app.	CCT501800

Product Pack	Pack Contents	Description	Part Number
Wiser Window & Door Sensor 	1 x Primary part (sensing circuit) 1 x Secondary part (magnet) 1 x Base plate 1 x Adhesive pad 1 x Screws (2 x ST2 x 10mm, 1 x M2 x 3mm) 1 x Installation instructions	Remotely monitor the status of windows or doors. Set automations with Wiser Room or Radiator Thermostats to turn heating off if open window/door is detected. In-app notifications of window/door status. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT591012
Wiser Motion Sensor 	1 x Motion sensor 1 x Base plate 1 x Adhesive pad 4 x Screws (2 x ST2 x 5mm, 2 x ST3 x 22 mm) 2 x Wall plugs 1 x Installation instructions	Detects motion and light levels and can be paired with other Wiser devices, such as the Wiser plug or Wiser LED Dimmer, to turn on lights when motion is detected. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT595012
Wiser Water Leakage Sensor 	1 x Wiser Water Leakage Sensor 1 x Installation instructions	Detects the presence of water and generates an audible alarm and smartphone alert. Typically used in leak prone areas such as under baths and sinks. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT592012
Wiser Shades Control Micro Module 	1 x Wiser Micro Module Shades Control 1 x Installation instructions	Enables smart control, scheduling and automation of motorised blinds and curtains via the Wiser Home app and voice control via smart speakers. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT5015-0002W
Wiser Smoke Alarm - Battery 	1 x Wiser Smoke Alarm Battery 1 x Mounting base 2 x Screws (M3.5 x 20mm) 2 x Wall plugs 1 x Primary label 1 x Installation instructions 1 x Dust cover	Battery-powered smoke alarm which can be linked with up to 40 other Wiser Smoke Alarms. Delivers smartphone alerts when smoke or heat is detected. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT599002
Wiser Power Micro Module 	1 x Wiser Power Micro Module 1 x Installation instructions	Enables smart control, scheduling, automation and energy monitoring of resistive loads up to 14A 3000W via the Wiser Home app, or with voice control via smart speakers. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCTFR6730
Wiser LED Dimmer Micro Module 	1 x Wiser Micro Module Dimmer 1 x Installation instructions	Enables smart control, automation and scheduling of LED lighting via the Wiser Home app and voice control via smart speakers. Install with a momentary switch for in-room control. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT5010-0003
Wiser Temperature & Humidity Sensor 	1 x Sensor 1 x Base plate 1 x Adhesive pad 4 x Screws (2 x ST2.3 x 15mm, 2 x M2 x 3mm) 2 x Wall plugs 1 x Installation instructions	A low-cost alternative to the Wiser Room Thermostat for those with a Wiser 2nd Generation Hub. Can be paired with other Wiser devices to automate temperature and humidity related actions via the Wiser Home app. Connect to any Wiser 2nd Generation Hub. Not compatible with Wiser 1st Generation Hub ^R .	CCT593012

Wiser Building Management System

Perfectly suited to building and property managers who are looking for the next level in building management services.

Wiser BMS is the smart solution from a trusted partner to keep your building energy consumption under control, manage multiple dwellings from the same interface.

- A fully integrated solution offering devices to manage and automate the whole smart home including heating, domestic hot water, lighting, shutters & safety.
- Professional support from our UK based Specification and Customer Support team.



Talk to your
local Area Sales
Manager for more
information.

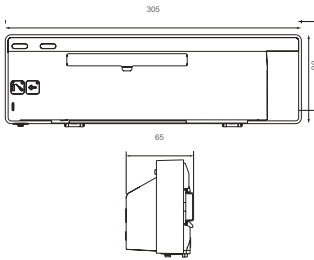


How we measure up

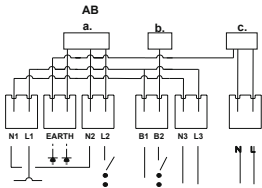
Temperature control

Underfloor Heating Controller

Dimensions (mm)



Wiring diagram



A. Pump

a. Option 1 (the pump is powered directly through the UFH)

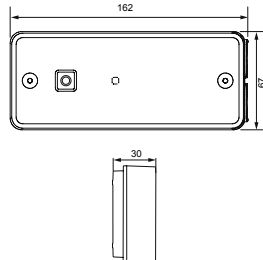
B. Boiler

b. The boiler will be switched OFF when all valves are closed. The relay is normally open and can be used with switched live with 230 V AC (to a zone valve). Use N3 and L3 terminals for a live switch.

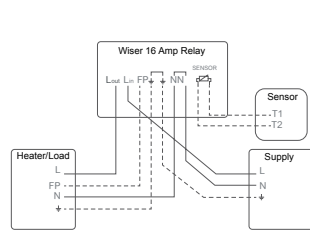
c. Power supply

Electrical Heat Switch

Dimensions (mm)



Wiring diagram



L : Live

N : Neutral

FP : Pilot wire

Sensor : Sensor (future use)

In the case of electric underfloor heating, it is mandatory to connect a temperature floor sensor, enabling 2 features:

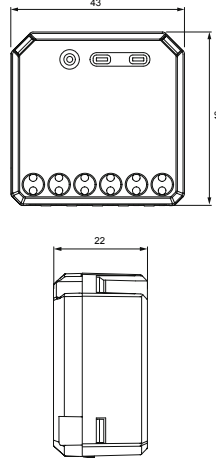
- 1) Keep the floor temperature low to avoid damaging it, as in the case of a wooden floor.
- 2) Avoid having the floor temperature too low to ensure comfort while walking barefoot.

Compatible floor sensors for electric underfloor heating:

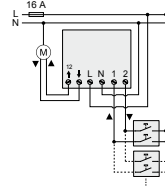
- 33 kΩ Schneider Electric Reference MTN616790
- 33 kΩ Eberle Reference F193720
- 15 kΩ Devi Reference 140F1091
- 10 kΩ Eiko Reference 5491605

Shades Control Micro Module

Dimensions (mm)

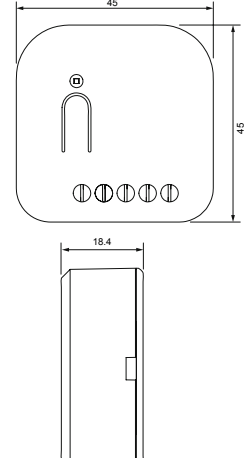


Wiring diagram

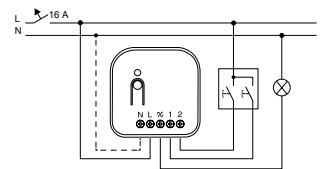


LED Dimmer Micro Module

Dimensions (mm)



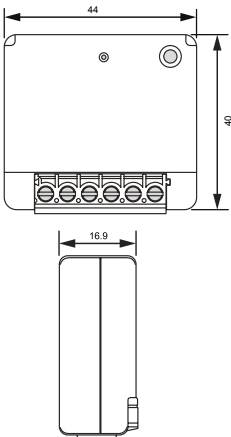
Wiring diagram



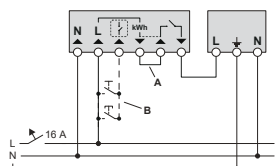
Hot water & heavy load control

Power Micro Module

Dimensions (mm)



Wiring diagram

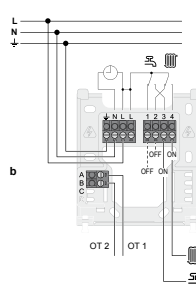
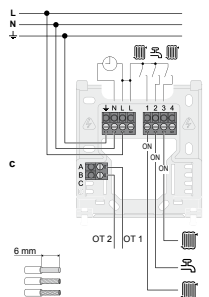
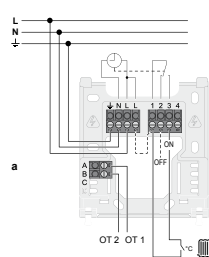


A: Shunt (pre-assembled)
B: Push button / switch (optional)

Hubs

Wiser 2nd Generation Hub^R

Wiring diagram



① One channel (CCTFR6311G2D)



OT 1 Opentherm[®] connection



OT 2 Opentherm[®] connection

② Two channels (CCTFR6312G2D)



Central heating



OT 1 Opentherm[®] connection



OT 2 Opentherm[®] connection

③ Three channels (CCTFR6313G2D)



Central heating circuit 1



Central heating circuit 2



OT 1 Opentherm[®] connection



OT 2 Opentherm[®] connection

Get technical

	Wiser Room Thermostat	Wiser Radiator Thermostat	Wiser Plug	Wiser Underfloor Heating Controller	Wiser Electrical Heat Switch
Dimensions	76mm (w) 76mm (h) 25mm (d)	79.5mm (h) 52mm (dia)	67.9mm (w) 79.6mm (h) 62.8mm (d)	305mm (w) 90mm (h) 65mm (d)	161mm (w) 65mm (h) 30mm (d)
Power supply	2x 1.5v IEC LR6 (AA) alkaline batteries	2 x 1.5 V IEC LR6 (AA) alkaline or rechargeable 1.2 V IEC HR6 NiMH batteries	230V a.c. ±10% 50Hz	230 V AC ±10% 50Hz	230 V AC ±10% 50Hz
Switch rating	N/A		13A Max / 3kW Max	3.15A	16A resistive 230V a.c. each switch (not suitable for inductive loads)
Wiring	No wiring required		No wiring required	Fixed wiring only, to comply with current IET regulations (BS7671)	
Interfaces	TFT display, touch buttons; I/O: None	Twist Cap, LED; I/O: None	Push Button/LED; I/O: Mains Relay	Push Button/LED	
Operating temperature	0°C to 45°C	-20°C to 65°C	0°C to 40°C	0°C to 50°C	
Storage temperature	-10°C to 55°C		-10°C to 40°C	-10°C to 55°C	-20°C to 65°C
Maximum mounting surface temperature	N/A	93°C	N/A		
Maximum water temperature	N/A	73°C continuous and 110°C max	N/A		
Ingress protection	IP 20	IP 30	IP 20	IP 30	IP 44* To achieve IP44. silicon sealant should be used around mounting holes and cable entry glands
Ambient humidity (non- condensing)	Operating 25% to 90%, Storage 15% to 95%		5% to 85%	Operating 25% to 85%, Storage 15% to 85%	Operating 25% to 90%, Storage 15% to 95%
Set-point range	5°C to 30°C		N/A		
Control accuracy	< 0.8°C at 4°C/h		N/A		
Timing resolution	N/A				
Temperature resolution	0.5°C		N/A		
Ball pressure test	75°C		125°C	75°C for the rear cover and 115°C for the front cover	78°C
Pollution degree	2				
Software class	A		N/A	A	
Without mains power	N/A				
Rated impulse voltage	N/A		2.5kV	4kV	
Radio technology/ frequency	Zigbee: 2.4 GHz, IEEE802.15.4				
Radio signal range	Max. 30m in free air		Max. 100m in free air	Max. 30m in free air	
Mounting	Wall bracket or desk stand	Radiator Valve	Std. UK 3 pin socket	DIN rail clips	Independently mounted control
Maximum radio frequency power transmitted	+13dBm (20mW)		+8dBm (6.3mW)	+13dBm (25mW)	
Relevant directives	Radio Equipment Directive (RED) 2014/53/EU, Batteries Directive 2006/66/EC, RoHS Directive 2011/65/EU		Radio Equipment Directive (RED) 2014/53/EU, RoHS 2011/65/EU	Radio Equipment Directive (RED) 2014/53/EU, RoHS 2011/65/EU	Radio Equipment Directive (RED) 2014/53/EU, RoHS directive 2011/65/EU
Applied standards	EN60730-1; EN60730-2-7; EN60730-2-9, EN 300 328		EN 60950-1, EN 62479, EN 300 328, EN 301 489-1, EN 301 489-17	EN60730-1; EN60730-2-9, EN 300 328, EN62479	EN60730-1; EN60730-2-9; EN 300 328; EN 301 489-1

	Wiser Window & Door Sensor	Wiser Motion Sensor	Wiser Water Leakage Sensor	Wiser Shades Control Micro Module	Wiser Smoke Alarm - Battery	Wiser Power Micro Module
Dimensions	42mm (w) 50mm (h) 16.3mm (d)	70mm (w) 70mm (h) 26.6mm (d)	66.7mm (w) 70.8mm (h) 19mm (d)	43mm (w) 43mm (h) 22mm (d)	89mm (w) 89mm (h) 33.5mm (d)	44mm (w) 40mm (h) 16.9mm (d)
Power supply	Battery 3V / CR2450	Battery 2 x 1.5V / LR03 AAA		230V a.c. ±10% 50Hz	Lithium 3 V	230V a.c. ±10% 50Hz
Switch rating	N/A			230V a.c. 4A cosϕ = 0.6 to 1.0	N/A	230V a.c. 14A resistive, 5A, cosϕ = 0.6 inclusive
Wiring	No wiring required			Fixed wiring only, to comply with current IET regulations (BS7671)	No wiring required	Fixed wiring only, to comply with current IET regulations (BS7671)
Interfaces	Push Button/LED					
Operating temperature	-10°C to 50°C				0°C to 45°C	0°C to 35°C
Storage temperature	-20°C to 60°C					
Ingress protection	IP20		IP44	IP20		
Ambient humidity (non-condensing)	10% to 95%				5% to 95%	25% to 90%
Radio technology/ frequency	Zigbee: 2.4 GHz, IEEE802.15.4				Zigbee: 2.4 GHz, IEEE802.15.4 RF 868MHz	Zigbee: 2.4 GHz, IEEE802.15.4
Radio signal range	Max 40m in free air			Max 100m in free air	Max 40m in free air	Max 30m in free air
Mounting	Screw or supplied adhesive strip		N/A	Backbox	Screw fixing	Backbox
Maximum radio frequency power transmitted	2.5mW			< 10mW	2.5mW	
Relevant directives	Radio Equipment Directive (RED) 2014/53/EU, Batteries Directive 2006/66/EC, RoHS Directive 2011/65/EU					
Applied standards	EN 60669-1 & 60669-2-5; EN 60730-1 & 60730-2-9 & 60730-2-13; EN 301 489			EN 62479: 2010 EN 60669-2-5: 2016 EN 60669-2-5: 2016; EN 301 489-17 V3.2.4: 09/2020 EN 300 328 V2.2.2: 07/2019, Zigbee 3.0 Certified	EN 14604:2005+AC:2008 Vfdb 14-01: 2010 NF 292 – part 2: rev 9	EN60669-1:2018, EN60669-1:2018, EN60669-2-1:2004 +A1:2009 +A12:2010, EN300328 v2.2.2 2019-07, EN301489- 01 V2.2.3 2019-11, EN301489-03 V2.1.1 2019-03, EN62479:2010, Zigbee 3.0 Certified



	Wiser LED Dimmer Micro Module	Wiser Temperature & Humidity Sensor	Wiser Non-relay 2nd Generation Hub	Wiser 1 Channel 2nd Generation Hub [®]	Wiser 2 Channel 2nd Generation Hub [®]	Wiser 3 Channel 2nd Generation Hub [®]
Dimensions	45mm (w) 45mm (h) 18.4mm (d)	45mm (w) 45mm (h) 17.2mm (d)	103.04mm (w) 24.03mm (h) 123.04mm (d)	150.8mm (w) 94mm (h) 30.25mm (d)		
Power supply	230V a.c. ±5% 50Hz	Battery3 V / CR2450	Input voltage: 100 - 240 V AC, 50/60 Hz, 0.3 A max. Output voltage: 5.0 V DC, 2 A, 10W Output connector: USB-C	230V a.c. ±10% 50Hz		
Switch rating	230V a.c. 1.3A	N/A		2A resistive 230V a.c. each switch (not suitable for inductive loads)		
Wiring	Fixed wiring only, to comply with current IET regulations (BS7671)	No wiring required	N/A	Fixed wiring only, to comply with current IET regulations (BS7671)		
Interfaces	Push Button LED			Push Button/LED; I/O: Mains Relays (1-3), Digital Boiler Interface		
Operating temperature	-5°C to 35°C	-10°C to 50°C	0°C to 45°C	0°C to 45°C		
Storage temperature	-20° to 70 °C	-20°C - 60°C	-20 °C to 65 °C			
Ingress protection	IP20			IP30		
Ambient humidity (non-condensing)	10% to 95%		10% to 90%	25% to 90%		
Control accuracy	N/A		<0.6°C at 4°C/hour (with Room Thermostat) <0.8°C at 4°C/hour (with Radiator Thermostat)	<0.6°C at 4°C/hour (with Room Thermostat) <0.8°C at 4°C/hour (with Radiator Thermostat)		
Timing resolution	N/A		1 minute			
Temperature resolution	N/A		0.5°C			
Ball pressure test	N/A		85°C	92°C		
Pollution degree	N/A		2			
Software class	N/A		A			
Without mains power	N/A		Display: LEDs off; Time: always kept; Programme times: always preserved			
Rated impulse voltage	NA			2.5kV EU/UK, 4kV DE		
Radio technology/ frequency	Zigbee: 2.4 GHz, IEEE802.15.4		Wi-Fi: 2.4 GHz, IEEE802.11 b/g/n Zigbee: 2.4 GHz, IEEE802.15.4			
Radio signal range	Max 100m in free air	Max 40m in free air	Max 30m free Air			
Mounting	Backbox	Screw or supplied adhesive strip	Wall plate			
Maximum radio frequency power transmitted	< 10mW	2.5mW	Wi-Fi: +17dBm (16 mW) Zigbee: +12dBm (50 mW)			
Relevant directives	Radio Equipment Directive (RED) 2014/53/EU, Batteries Directive 2006/66/EC, RoHS Directive 2011/65/EU		Radio Equipment Directive (RED) 2014/53/EU & Commission Delegated Regulation (EU) 2022/30 (RED DA), Batteries Directive 2006/66/EC, RoHS Directive 2011/65/EU			
Applied standards	EN 62479: 2010, EN 50428: 2005 + A1: 2007 + A2: 2009, EN IEC 60669-2-1: 2022 + A11: 2022, EMC (Article 3.1 a of RED) - EN 301 489-17 V3.2.4: 09/2020, EN 50428: 2005 + A1: 2007 + A2: 2009, EN IEC 60669-2-1: 2022 + A11: 2022, EN 300 328 V2.2.2: 07/2019, Zigbee 3.0 Certified	EN 60669-1 & 60669-2-5; EN 60730-1 & 60730-2-9 & 60730-2-13; EN 301 489	EN IEC 63000; EN50665; EN62368-1; EN301 489-17, EN 300 328	EN IEC 63000; EN IEC 62311; EN 60730-2-7; EN 301 489-17; EN 60730-2-7; EN 300 328;		

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