# Wiser 16 A Relay for Temperature Control

## **Device user guide**

Information about features and functionality of the device.

#### 10/2024





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## **Safety Information**

## **Important Information**

Read these instructions carefully and look at the equipment to become familiar with the device before trying to install, operate, service, or maintain it. The following special messages may appear throughout this manual or on the equipment to warn of potential hazards or to call attention to information that clarifies or simplifies a procedure.



The addition of either symbol to a "Danger" or "Warning" safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that accompany this symbol to avoid possible injury or death.

### **A A DANGER**

**DANGER** indicates a hazardous situation which, if not avoided, will result in death or serious injury.

Failure to follow these instructions will result in death or serious injury.

## 

**WARNING** indicates a hazardous situation which, if not avoided, **could result in** death or serious injury.

## 

**CAUTION** indicates a hazardous situation which, if not avoided, **could result in** minor or moderate injury.

## NOTICE

NOTICE is used to address practices not related to physical injury.

## Wiser 16 A Relay for Temperature Control



CCTFR6700 WE714U1A0902

## For your safety

### NOTICE

#### **RISK OF DAMAGE TO DEVICE**

Always operate the product in compliance with the specified technical data.

Failure to follow these instructions can result in equipment damage.

### About the device

The Wiser 16A Relay (hereinafter referred to as **Relay**) is used to control electrical heaters or electric underfloor heating with On/Off commands or Fil Pilote commands. The fil pilote is a single control wire interface for controlling multiple heaters from a Relay. It can control heaters up to 3000 W.

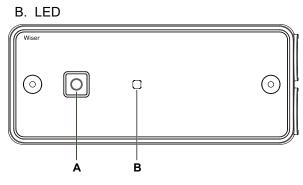
**TIP:** Pair with Wiser Room Thermostat to control electric heaters or electric underfloor heating.

#### Features of the Relay:

- Remotely control electrical heating using the Wiser Home app.
- Boost the room temperature using the Wiser Room Thermostat center button.

### **Diagram of operating elements**





### Installing the device

Refer to the installation instruction supplied with this product. See installation instructions.

#### **Choosing Suitable Location to Install:**

#### **Device positioning**

The Relay has to be installed below or to the side of any heat source. It should not be installed behind or above a wall-mounted heater.

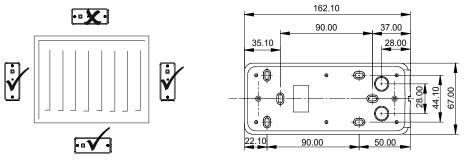
#### Preparation of the mounting surface

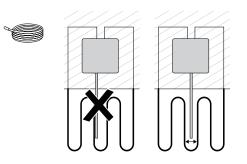
**TIP:** Breakout tabs can be removed to provide 4x extra mounting holes and 2x larger holes for rear cover cable entry.

#### **Floor sensor installation**

It is important that the floor sensor is fitted in the correct location in order to read an accurate floor temperature.

- Floor sensor must be 1 m from edge of the floor, halfway between pipes.
- · Make sure the sensor is not sitting on top of heating pipes.
- Assemble sensor cable in a plastic conduit with inside diameter of minimum 16 mm.
- Fix tape to the end of the conduit, cut a slice in the tape to ensure condensation can come out of the conduit.





### Pairing the device

Using the Wiser Home app, pair your Relay with the **Wiser Hub** to access and control the Relay.

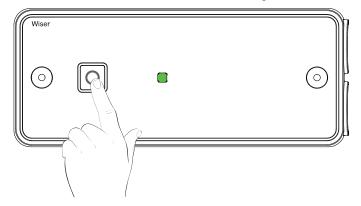
To pair the Relay:

- 1. On the Home page, tap 🔅.
- 2. Tap Devices > and tap Climate > 16A Relay.

3. Tap Next.

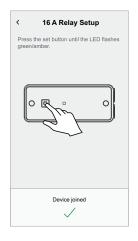
< 16 A Relay Setup
Please make sure your 16 A Relay devices are wired and powered before proceeding
Make sure you add a Room Thermostat to the same room for this device to function correctly.
<ul> <li>same room for this device to function correctly.</li> </ul>
00° 0
Next

4. Press the Set button until the LED flashes green/amber.



TIP: The next screen shows the process of joining the Relay.

 Please wait for a few seconds until the Relay is successfully joined. In the app, you can see the Relay is successfully joined.



- 6. On the 16 A Relay Setup page, select the control type Relay or Pilot wire.
- 7. Tap **Next** to enter the Relay name and assign it to an existing room or a new room.

You can see the added the Relay on the Home page under the room tab or under  $\ensuremath{\textbf{ALL}}$  devices.

### **Configuring the device**

### **Renaming the device**

You can rename the device using the Wiser Home app.

- 1. On the Home page, tap 🔅.
- 2. Tap **Devices > Climate > 16A Relay > Name** (A) to rename the device.

**NOTE: Type** and icon (B) are both assigned automatically, based on whether you have radiators or floor heating. You will be able to view this only after the pairing is completed.

< Device Details 16A Relay	ෂ	
OPTIONS	^	
Type Heating	<u> </u>	B
Name Heating Relay	<i>"</i>	A
Location Living Room		
Control Type Fil Pilote		
ABOUT	^	
Firmware Version		
Identify		

### Setting the device location

Using the Wiser Home app, you can assign the Relay in the room (such as bedroom, living room, dining room etc.). To assign the Relay location:

- 1. On the Home page, tap 🔅.
- Tap Devices > Climate > 16A Relay > Location (A) to assign the Relay to the existing room or a new room (B) and tap Submit.

**NOTE:** You can configure up to 4 Relays in the same room.

< Device Details		< 16A Relay Setup
16A Relay		Where does this device control?
0 Ø		New room name
OPTIONS ^		Living Room 3 Devices
Type Heating	B	Kitchen 2 Devices
Name Heating Relay		Bathroom 2 Devices
Location Living Room	A	Bedroom 2 Devices
Control Type 💉		
ABOUT ^		
Firmware Version Firmware 00.00.000		
Identify		Remove from Room
Delete		Submit

### Setting the device control

Using the Wiser Home app, you can control the electrical heaters or electric underfloor heating by selecting Relay or Pilot Wire. To set the Relay control:

- 1. On the Home page, tap 🕸.
- 2. Tap Devices > Climate > 16A Relay > Control type (A) and select Relay or Pilot Wire.
- 3. Tap **OK** (B).

< Device Details 16A Relay		< Device Details 16A Relay
OPTIONS ^		
Type Heating		
Name Heating Relay		Relay
Location Living Room		Pilot Wire
Control Type	A	CANCEL OK-B
Firmware Version Firmware 00.00.000		00.00.000
Identify		Identify
Delete		Delete

### Selecting the floor sensor

Using the Wiser Home app, you can select the type of floor sensor that you have installed in case of using electric underfloor heating. The floor sensor measures the floor temperature and displays in the app. This option appears only if you have selected the **Relay** as **Control Type**.

### **A A DANGER**

#### **RISK OF FATAL INJURY FROM ELECTRIC SHOCK**

The device is not a Safety Extra Low Voltage (SELV) device. The sensors lines are on mains (230 VAC) line.

• Only use sensors with the appropriate insulation rating.

Failure to follow these instructions will result in death or serious injury.

To select the floor Sensor:

- 1. On the Home page, tap 🖏.
- 2. Tap **Devices > Climate > 16A Relay > Floor Sensor** (A) and select the sensor from the list.
  - NTC 10K
  - NTC 12K
  - NTC 15K
  - NTC 33K
  - NTC 47K

NOTE: Not fitted is selected by default.

3. Tap **OK**.

< Device Details 16A Relay D	3	
OPTIONS	^	
Type Floor Heating		
Name Underfloor Heating		
Location Living Room	ø	
Control Type Relay		
Floor Sensor		A
ABOUT	^	
Firmware Version		
Identify		
Delete		

Once the floor sensor is selected, new options (B) appear in the app.

- Floor Temperature It shows the temperature of the floor measured by the floor sensor.
- Floor Sensor Offset Allows you to calibrate the floor sensor to match the actual temperature of the floor.
- Floor Sensor Upper Limit The upper limit is set to maintain the floor temperature below the set limit.
- Floor Sensor Lower Limit The lower limit is set to maintain the floor temperature above the set limit.

< Device Details 16A Relay	ඵ	
OPTIONS	^	
Type Floor Heating	Î	
Name Underfloor Heating		1
Location Living room	ø	1
Control Type Relay		
Floor Sensor		
Floor Temperature		
Floor Sensor Offset		
Floor Sensor Upper Limit		Œ
Floor Sensor Lower Limit		
ABOUT	^	1
Firmware Version		1
Identify		
Delete		

### Offsetting the floor sensor

Using Wiser Home app, the **Floor Sensor Offset** option allows you to calibrate the floor sensor to match the actual temperature measured by an external device. To offset the floor sensor:

- 1. On the Home page, tap 🕸.
- 2. Tap **Devices > Climate > 16A Relay > Floor Sensor Offset** (A) and select the temperature that is required for offsetting, to match the actual temperature.
- 3. Tap **OK**.

NOTE:

- The allowed temperature range to offset the floor sensor is 9 °C to -9 °C.
- The floor temperature shows the final temperature of the floor including any offset that is applied.

**TIP:** Offsetting the floor sensor is not required, if the floor temperature measured by the floor sensor and an external device are same. You can set it to 0 °C.

< Device Details 16A Relay	₿		
OPTIONS		^	
Type Floor Heating		1	
Name Underfloor Heating			
Location Living room		ø	
Control Type Belay			
Floor Sensor			
Floor Temperature			
Floor Sensor Offset			(A)
Floor Sensor Upper Limit			
Floor Sensor Lower Limit			
ABOUT		^	
Firmware Version			
Identify			
Delete			

### Setting the floor sensor Upper/Lower limit

Using the Wiser Home app, you can switch on/off the electrical underfloor heater by setting lower/upper temperature limit. This allows you to maintain the floor temperature within the set limits. To set the floor sensor temperature limit:

- 1. On the Home page, tap 🔅.
- 2. Tap Devices > Climate > 16A Relay .
- 3. Tap Floor Sensor Upper Limit/ Floor Sensor Lower Limit (A) and set the upper/lower temperature limit.

NOTE:

- Upper limit range is 5 °C to 40 °C.
- Lower limit range is 4 °C to 39 °C.
- 4. Tap **OK**.

TIP: You can select Disabled, if setting the floor sensor limit is not required.

< Device Details 16A Relay ال	>
OPTIONS	^
Type Floar Heating	16
Name	
Underfloor Heating	
Living room	
Control Type Relay	
Floor Sensor	
12K Floor Temperature	
28°C	
Floor Sensor Offset	
Floor Sensor Upper Limit	
Floor Sensor Lower Limit	
10°C	
ABOUT	~
Firmware Version	
Identify	
Delete	

### Identifying the device

Using the Wiser Home app, you can identify the Relay from the other available devices in the room. To identify the Relay:

1. On the Home page, tap 🔅.

2. Tap **Devices > 16A Relay > Identify** (A) to rename the Relay.

#### NOTE:

- This feature flashes the Relay LED, so you can identify the actual device.
- The Relay LED will continue to flash until you tap **OK**.

< Device Details 16A Relay		
	&	
OPTIONS	^	]
Type Heating	)))	]
Name Heating Relay		
Location Living Room		
Control Type Fil Pilote		
ABOUT	^	1
Firmware Version		
Identify		A
Delete		

### Using the device

### Setting the room temperature using the app

Using the Wiser Home app, you can adjust, set or boost the room temperature.

**Precondition**: Add a Wiser Room Thermostat / Wiser Temperature/Humidity Sensor in the same room where 16A Relay is located.

To adjust, set or boost the room temperature:

1. On the Home screen, tap  $\mathcal{O}$  from the room tab or **All** tab.

TIP: The orange flame shows the heating is on.

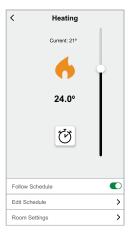
a. Use the slider control on the right of the screen to adjust the temperature.

**NOTE:** The flame shows that the room temperature is lower than the desired temperature (set point) and so the heating is ON.

b. Tap  $^{\star}$  to set the boost time.

**TIP:** You can Boost the room temperature using the Wiser Room Thermostat center button.

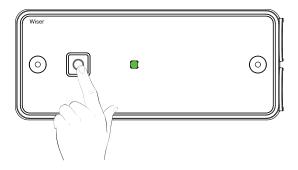
**NOTE:** Boost can be stopped at any time by tapping the  $^{\prime} \mathcal{O}^{\prime}$  and selecting it **off**.



**IMPORTANT:** If you have installed both PowerTag and Relay, you can monitor the powerflow and energy consumption in the **Energy** tab. For more information, refer to Energy view of individual devices.

### **Emergency Heating**

You can do emergency heating by pressing the Relay Set button when the Hub is not working or the Wiser Home app heating control is not responding.



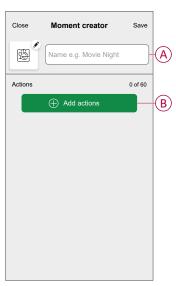
### **Creating a moment**

Moment allows you to group multiple actions that are usually performed together. By using the Wiser Home app, you can create moments based on your needs. To create a moment:

- 1. On the **Home** page, tap
- 2. Go to **Moments** > **•** to create a moment.
- 3. Enter the name of the moment (A).

**TIP:** You can choose the cover image that best represents your moment by tapping **•**.

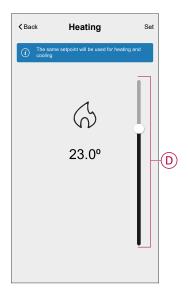
4. Tap Add actions (B) to select the list of devices.



5. In the Add actions menu, you can select the devices (C).

All	Test Thr	ree Hea	ting	
Test				_
Ţ	Rotary dir	nmer		
٩	Connecte	d Socket		0
Three				
6	Heating Heater 1			0
Light				
	Light			

- 6. Once all the device are selected, tap **Done**.
- 7. On the **Moment creator** page, tap the device to set the condition. For example, select heating.
  - Set the required temperature using sliding bar (D).



When the desired condition is set, tap Set.

8. Once all conditions are set, tap **Save**.

Once the moment is saved, it is visible on the **Moments** tab. You can tap on the moment to enable it.

#### **Editing a moment**

To edit a moment:

- 1. On the **Home** page, tap
- 2. Go to **Moments**, locate the moment you want to edit and tap  $\checkmark$  (A).

3. On the **Moment Editor** page, you can tap each item to change the settings and tap **Save** (B).

Automation	s		Close	Moment editor	Save B
Moments ) 않 Away Mo 안 Boost All Moments 안 Movie+N		Schedules ancel all verrides 	Actions	Movie+Night+	1 of 60 On
Home	Automations	Q Energy		Delete	

#### **Deleting a moment**

To delete a moment:

- 1. On the **Home** page, tap
- 2. Go to **Moments**, locate the moment you want to delete and tap  $\checkmark$  (A).
- 3. On the Moment Editor page, tap **Delete** (B) and tap **Ok**.

Automations		Close Moment edito	r Save
Moments Aut	tomations Schedules	Movie+Night+	
👸 Boost All		Actions	1 of 60 On
Moments	• بط	- Ligit	
y wovernight			
	•	+ Add actions	

### **Creating an automation**

An automation allows you to group multiple actions that are usually done together, triggered automatically or at scheduled times. By using the Wiser app, you can create automations based on your needs. To create an automation:

- 1. On the **Home** page, tap
- 2. Go to Automation > 
  to create an automation.
  NOTE: Max. 10 automations can be added.

- 3. Tap If (A) and select any of the following conditions (B):
  - All conditions: This triggers an action only when all conditions are met.
  - Any condition: This triggers an action when at least one condition is met.

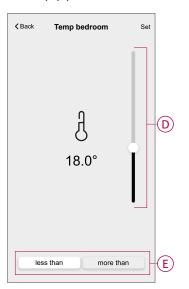
	Close	New automation	Save	
	1	e.g. Good Morning		
(A)	If	When	Then	
	Conditio	ns are met	0 of 10	
	IIA 📎	conditions 🕜 Any c	ondition	3)
		$\overline{\mathbb{A}}$		
	Start by	adding a condition that w your automation.	ill trigger	
		+ Add conditions		

- 4. Tap Add conditions and select any of the following (C):
  - Device status change: Select a device to enable automation.
  - Away Mode: Enable/Disable away mode to trigger an action.

**TIP:** Away mode can also be used as a trigger to turn off the lights, dimmer or closing the shutter etc. For more information refer to Away mode.

	Add conditions ease choose the triggers to activate ur automation.		
گر	Device status change E.g. if motion is detected	>	
Ì٩°	Away Mode E.g. if away mode is on	>	U

5. Tap **Device status change** > **Temperature/Humidity Sensor** > **Temperature**, Set the temperature using sliding bar (D) and select the condition (E) (less than / more than), then tap **Set**.



#### NOTE:

- Max. 10 conditions can be added.
- To remove an added condition, swipe left and tap
- To set a specific time for your automation, tap When > Add time and select any of the following (F):
  - Specific time of the day: Sunrise, Sunset, Custom.
  - Period of time: Daytime, Night time, Custom.

Specific time of day E.g. at 07:00 or at sunrise	;
Period of time E.g. from sunset to sunrise	3

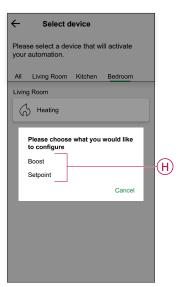
#### NOTE:

- Max. 10 entries can be added
- To remove a specific time, swipe left and tap

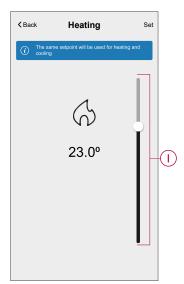
- To add an action, tap Then > Add an action and select any of the following (G):
  - Control a device: Select a devices that you want to trigger.
  - **Send notification**: Turn on the notification for the automation.
  - Activate a moment: Select the moment that you want to trigger.
  - Wait: This option allows you to add a delay in an automation sequence. You can set the wait time in increments of 1 hour and 1 minute, up to a maximum of 24 hours. This feature is useful for delaying actions within an automation.

	← Add an action	
-	Please choose an action for your automation.	
	Control a device E.g. turn the light on	>
	Send Notification E.g. if the motion is detected	>
(G)	Activate a moment E.g. enable Away mode	>
	Wait E.g. wait 10 mins until next action	>

- 8. Tap **Control a device > Heating** and select any of the following (H):
  - Boost: Set the duration to increase the temperature by 2° C.
  - Setpoint: Set the desired temperature.



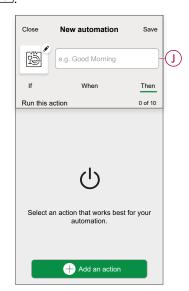
9. Tap **Setpoint**, set the required temperature using vertical sliding bar (I), then tap **Set**.



#### NOTE:

- Max. 10 actions can be added.
- To remove an action, swipe it left on the action and then tap
- 10. Enter the automation name (J).

You can choose the cover image that represents your automation by tapping



#### 11. Tap Save.

Once the automation is saved, it is visible on the **Automation** tab.

Using the  $\bigcirc$  (K) you can enable and disable the automation.

Automations	3		
Moments	Automations	Schedules	
Automations			
Device			K
		•	
		Ą	
Home	Automations	Insights	J

#### Example of an automation

This demonstration shows you how to create an automation to turn on the Heating to 20  $^{\circ}$ C when the temperature is less than 18  $^{\circ}$ C.

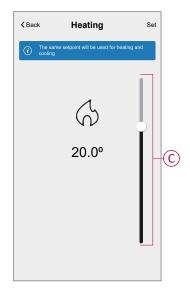
**NOTE:** It is mandatory to create two automations. First, switch on the heater at 22 °C when the room temperature is at 17 °C or lower. Second, switch off the heater when the room temperature is at 25 °C or above. **The room heater will not turn off automatically until you create another automation.** 

- 1. Go to **Automation** > 🕀 to create an automation.
- 2. To add a condition, tap Add Condition > Device status change > Temperature/Humidity Sensor > Temperature.
- 3. Set the temperature as 18 °C (A) and the condition as **less than** (B) and tap **Set**.

	< Back	Temp bec	iroom	Set	
		J			A
		18.0			
B	le	ss than	more than		

4. Read the information and tap OK.

5. To add an action, tap Then > Add an action > Control a device > Heating > Setpoint. Set the temperature to 20 °C (C), then tap Set.



- 6. Read the information and tap **OK**.
- 7. Enter the name of the automation.

**TIP:** You can choose the cover image that represents your automation by tapping

8. Tap Save.

Once the automation is saved, it is visible on the Automation tab.

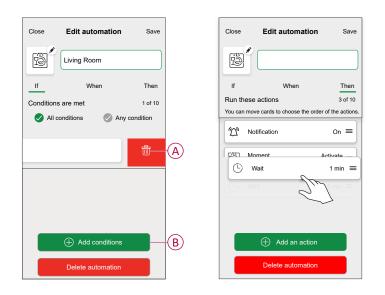
Automation	5		
Moments	Automations	Schedules	
Automations			
Device			D
Home	Automations	Q Insights	

**NOTE:** You can enable or disable saved automations on the **Automations** tab by using  $\bigcirc$  (D).

#### **Editing an automation**

- 1. On the **Home** page, tap **Automations**
- 2. Go to Automation, tap the automation you want to edit.

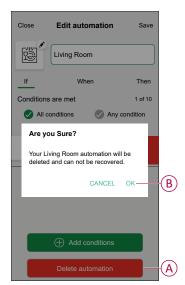
- 3. On the Edit automation page, you can perform following changes:
  - Change the icon
  - Rename the automation.
  - Tap each condition to change the settings.
    - To remove a condition, slide the condition towards left and then tap
       (A) to delete it.
  - To change the order of actions, tap the **Then** option, and hold an action then drag and drop to the desired position.



4. Tap **Save** to save the changes.

#### **Deleting an automation**

- 1. On the **Home** page, tap **Automations**
- 2. Go to Automation, tap the automation you want to delete.
- 3. On the **Edit automation** page, tap **Delete automation** (A) and read the confirmation message and then tap **OK** (B).



### **Removing the device**

Using the Wiser home app, you can remove the relay from the Wiser system. To remove the relay:

- 1. On the Home page, tap 🔅.
- 2. Tap Devices > 16A Relay > Delete (A).

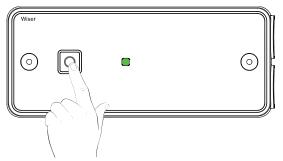
< Device Details 16A Relay		
0	&	
OPTIONS	^	
Type Heating		i
Name Heating Relay	ø	
Location Living Room	,#*	
Control Type Fil Pilote		
ABOUT	^	
Firmware Version Firmware 00.00.000		
Identify		
Delete		-(A

### **Resetting the device**

You can reset the Relay to the factory default. It can be reset manually at any time, e.g., when the Hub is replaced. To reset the Relay:

- e recer and richay.
- 1. Press and hold the Set button for > 20 seconds.

After 15 seconds, the LED flashes red.



 When the LED stops flashing red, release the Set button. The LED stops flashing upon successful reset of the Relay.

## **LED** indications

#### Normal use

Status	User Interaction	Description
Power on	*	Flashing orange
In connection with the Wifi gateway		Off: heating off Steady
		green: heating on

#### Normal use (Continued)

Pairing in progress	*	Alternating orange and green flashing
Not paired	*	Off: heating off
		Steady orange: heating on
Degraded mode (no connection with the thermostat or with the gateway)	*	Flashing red: heating off
		Steady red: heating on
Manual Test / Forcing	*	Flashing green: heating on due to forcing

## Troubleshooting

Symptom	Possible cause	Solution
The relay displays offline in the app or the LED flashing or solid red.	<ol> <li>Weak or no signal between the Wiser Hub and the relay.</li> <li>The relay is working in degraded mode.</li> </ol>	<ol> <li>Check Hub is online.</li> <li>Check signal strength.</li> </ol>
The relay is flashing green.	Emergency heat is active.	Press the button to cancel the emergency heat function.

## **Technical Data**

Rated voltage:	230 V, 50 Hz (AC ONLY)
Power consumption:	7.3 W
Purpose of control:	Electrical Control,
	Manual + Automatic Control, Sensing Control
Type of load and rated current:	16 A Resistive or (3A) Inductive Load Circuit for pilot load (FP)
	IMPORTANT: Not suitable for plinth heaters.
IP rating:	IP44
Terminals and Wiring:	Suitable for conductor sizes
	1.0 - 2.5 mm²
	Insulation strip length 6.5 mm
Operating Temperature:	0 °C to 60 °C
Storage Temperature:	-20 °C to 65 °C
Class of control:	Class II
Method of mounting control:	Independently mounted control
Method of providing earthing control:	The control is not earthed Terminals are provided for linking external earthing conductors.
Method of attachment for nondetachable cords:	Type Y attachments
Extent of sensing element: (if installed)	External temperature sensor temperature setting range of 5 $^\circ$ C to 30 $^\circ$ C ±5%
Operating Value:	User variable time control of electrical/heating system (only at system level through Hub controllers)
Degree of pollution:	2
Rated impulse voltage:	4 KV
Ball pressure test:	115 °C
Software class:	A
Radio Technology/ Frequency:	2.4 GHz
Radio signal range:	30 m in free space
Maximum radio frequency power transmitted:	+13 dBm (20 mW)
Product dimensions: (H x W x D)	162 x 67 x 30 mm
Communication protocol:	Zigbee 3.0 certified
Compatible floor sensors in case of electric underfloor heating:	<ul> <li>33kΩ Schneider Electric Reference MTN616790</li> <li>33kΩ Eberle Reference F193720</li> <li>15kΩ Devi Reference 140F1091</li> <li>10kΩ Elko Reference 5491605</li> </ul>

## Compliance

## **Compliance information for Green Premium products**

Find and download comprehensive information about Green Premium products, including RoHS compliance and REACH declarations as well as Product Environmental Profile (PEP) and End-of-Life instructions (EOLI).

https://checkaproduct.se.com/



### **General information about Green Premium products**

Click the link below to read about Schneider Electric's Green Premium product strategy.

https://www.schneider-electric.com/en/work/support/green-premium/



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DUG\_Wiser 16A Relay for Temperature Control\_WH-04