


**GB** Assembly/Installation



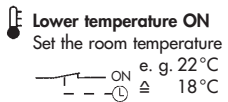
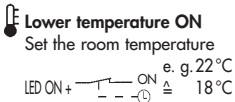
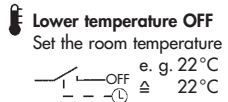
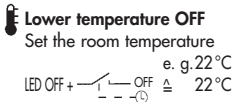
- 1 Lift the adjusting knob with a suitable tool
- 2 Release the fastening screw
- 3 Remove the upper part of the case
- 4 Determine the appropriate type of installation
- 5
  - The unit **must** be connected by a qualified person exercising due care
  - Switch off the heating system before assembly
  - Check and make sure that the connecting wires are not live

 Accuracy of control is only achieved if the stated current values are adhered to.  
Do you know how much current is drawn by the consumer?  
If in doubt, check!  
Select the right type of connection terminals when making the connection!

- Guide the connecting wires through the opening in the unit's base
- Mount the base on a flat, firm surface or flush-mounted socket
- Strip the connection wires properly and connect as shown in the circuit diagram, **see the circuit diagrams on the following pages**

**GB** Connection/Operation

- 6 Determine the temperature range
- 7 Put the setting knob on the shaf. Note the markings!

8	thermio 102	thermio 402	thermio 103	thermio 403	thermio 513
a)	-	-	-	-	LED OFF = Comfort temperature LED ON = Lower temperature
b)	-	1 = Heating ON 0 = Heating OFF	-	1 = Heating ON 0 = Heating OFF	 2 = Comfort temperature  1 = Lower temperature
c)	S e t t e m p e r a t u r e v a l u e				
d)	C o n n e c t i o n o f a t i m e s w i t c h				
	-	-	Connect terminal 3  <b>Lower temperature ON</b> Set the room temperature e.g. 22°C ON 18°C	-	Connect terminal 3  <b>Lower temperature ON</b> Set the room temperature e.g. 22°C LED ON + ON 18°C
			 <b>Lower temperature OFF</b> Set the room temperature e.g. 22°C OFF 22°C		 <b>Lower temperature OFF</b> Set the room temperature e.g. 22°C LED OFF + OFF 22°C
	* Lower temperature = Comfort temperature minus 4 K (Kelvin)				

**GB** Technical data

	thermio 102	thermio 402	thermio 103	thermio 403	thermio 513
Dimensions H x W x D mm	75 x 71 x 21	75 x 71 x 21	75 x 71 x 21	75 x 71 x 21	75 x 71 x 21
Weight g (approx.)					
Connection	2-wire	2-wire	3-wire	3-wire	3-wire
Power consumption	approx. 200 mW	approx. 200 mW	approx. 200 mW	approx. 200 mW	approx. 200 mW
Switching capacity					
- with ohmic load	0,5/5 A/250 V~	0,5/5 A/250 V~	10 A/250 V~	10 A/250 V~	10 A/250 V~
- with inductive load cos. φ 0,6	0,5/4 A/250 V~	0,5/4 A/250 V~	4 A/250 V~	4 A/250 V~	4 A/250 V~
- minimum	0,5/1 A/24 V-	0,5/1 A/24 V-	0,1 A/230 V-	0,1 A/230 V-	0,1 A/230 V-
Switching output	Opens (with increasing temperature)	Opens (with increasing temperature)	Opens (with increasing temperature)	Opens (with increasing temperature)	Opens (with increasing temperature)
Switching contact	Ag Ni	Ag Ni	Ag Ni	Ag Ni	Ag Ni
Ambient temperature	T 30	T 30	T 30	T 30	T 30
Protection class	II after suitable installation	II after suitable installation	II after suitable installation	II after suitable installation	II after suitable installation
Switching status indication	-	yes	-	yes	yes
- thermostat	-	-	-	-	LED green
- selector switch	-	Heating On/Off	-	Heating On/Off	Overnight temperature drop On/Off
Type of installation	Surface mounting	Surface mounting	Surface mounting	Surface mounting	Surface mounting
Type of connection	Screw terminal with wire fuse	Screw terminal with wire fuse	Screw terminal with wire fuse	Screw terminal with wire fuse	Screw terminal with wire fuse
Day temperature regulation range	+5 °C to +30 °C	+5 °C to +30 °C	+5 °C to +30 °C	+5 °C to +30 °C	+5 °C to +30 °C
Overnight temperature drop	-	-	approx. 4 K	-	approx. 4 K
Temperature switching differential	approx. 1 K	approx. 1 K	approx. 0,5 K	approx. 0,5 K	approx. 0,5 K
Feedback	Thermal	Thermal	Thermal	Thermal	Thermal
Storage temperature	-20 °C to +70 °C	-20 °C to +70 °C	-20 °C to +70 °C	-20 °C to +70 °C	-20 °C to +70 °C
Type of protection	IP 20	IP 20	IP 20	IP 20	IP 20
Radio interference suppression	as per EN 55014	as per EN 55014	as per EN 55014	as per EN 55014	as per EN 55014