

Electric connection

Warning! disconnect electric circuit from supply.

Proceed as follows:

- pull off temperature setting knob
- push retaining hook outwards using screwdriver
- remove housing cover
- make connection in compliance with wiring diagram (see housing cover).

Remote sensor

The remote sensor is extendable to max. 50 m, using a 230 V cable.

The remote sensor (type F 193 720) should be installed into a protection tube (pocket). This facilitates later replacement.

Warning!

Sensor cables carry operating voltage.

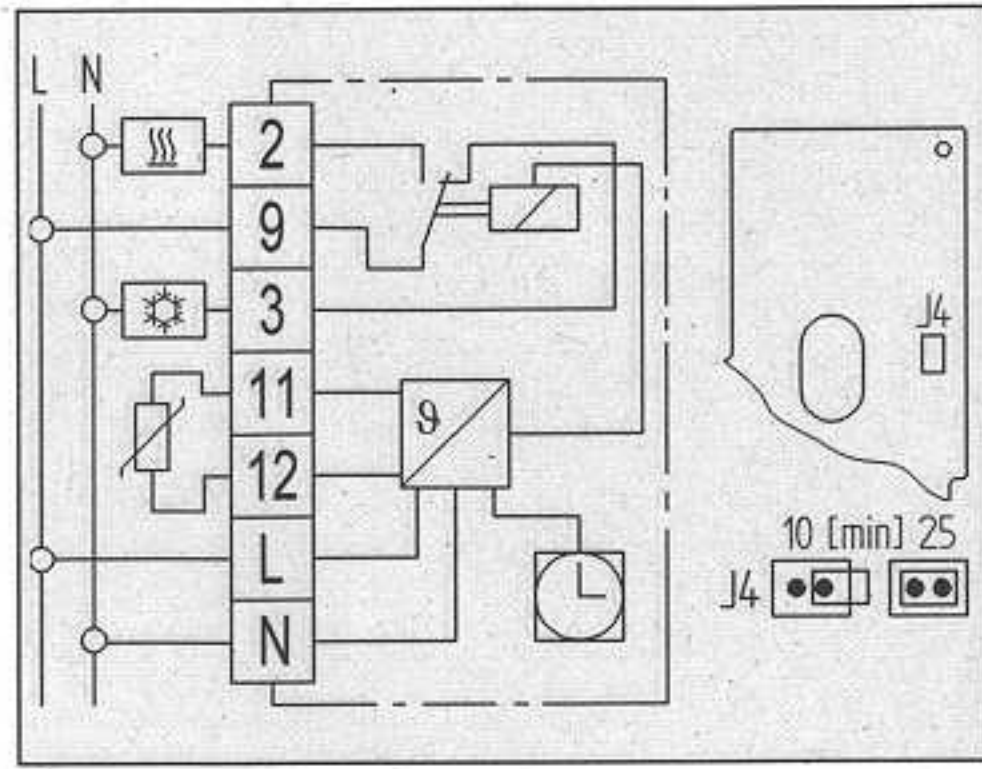
In case of failure (break or short-circuit) the controller switches into emergency operation and heating capacity will be 30%.

4. Technical data

Type	easy 3ft with daily timer easy 3fw with weekly timer	
Article No.	easy 3ft easy 3fw	517 2705 51 100 517 2706 51 100
Operating voltage	195...253 V AC 50/60 Hz	
Power consumption	<1.5 W	
Temperature setting range:		
comfort temperature	1...5 (\cong 10...50°C)	
setback temperature	1...5 (\cong 10...50°C)	
frost protection	approx. 5°C fixed	
Regulation	proportional controller (due to PWM quasi-continuous, see Fig. 1)	
Cycle period	adjustable 10 or 25 min. (sum of PWM ON and OFF times)	
Proportional band	1.5 K	
Output	relay, 1 volt-free* changeover contact	
Switching current	10 mA...16 A $\cos \varphi = 1$ max. 4 A $\cos \varphi = 0,6$ max. 10 electro-thermal actuators	
Switching voltage	24...250 V AC	
Mode selector switch	comfort/automatic/setback/ frost protection/OFF	
Indicator lamp:		
red:	controller demands heat	
green:	setback mode	
Remote sensor:	type F 193 720 length 4 m, type F 190 021 (wall mounting) both extendable up to 50 m	
sensor characteristics	42 k Ω at 20°C 26 k Ω at 30°C	
Range limitation	inside setting knob	
Clock:		
accuracy	<10 min./year	
switching time setting	every 15 min. with daily timer every hour with weekly timer	
power reserve	approx. 100 h	
Protection class of housing	IP 30	
Degree of protection	II (see Warning!)	
Ambient temperature	-10...40°C, without condensation	
Storage temperature	-25...65°C	
Dimensions	160 x 80 x 36 mm	
Weight	approx. 220 g	

* The volt-free contact of this mains-operated unit does not ensure the requirement for the use of safety extra-low voltage (SELV).

5. Wiring diagram



Symbol explanation

Heating
 Cooling
 Remote sensor

6. Operation

Temperature setting

- 1 Comfort temperature** (daytime temperature) is set by means of externally visible setting knob (1)
- 2 Setback temperature** (night temperature) is set by means of adjustment knob (2) beneath cover.

Time setting

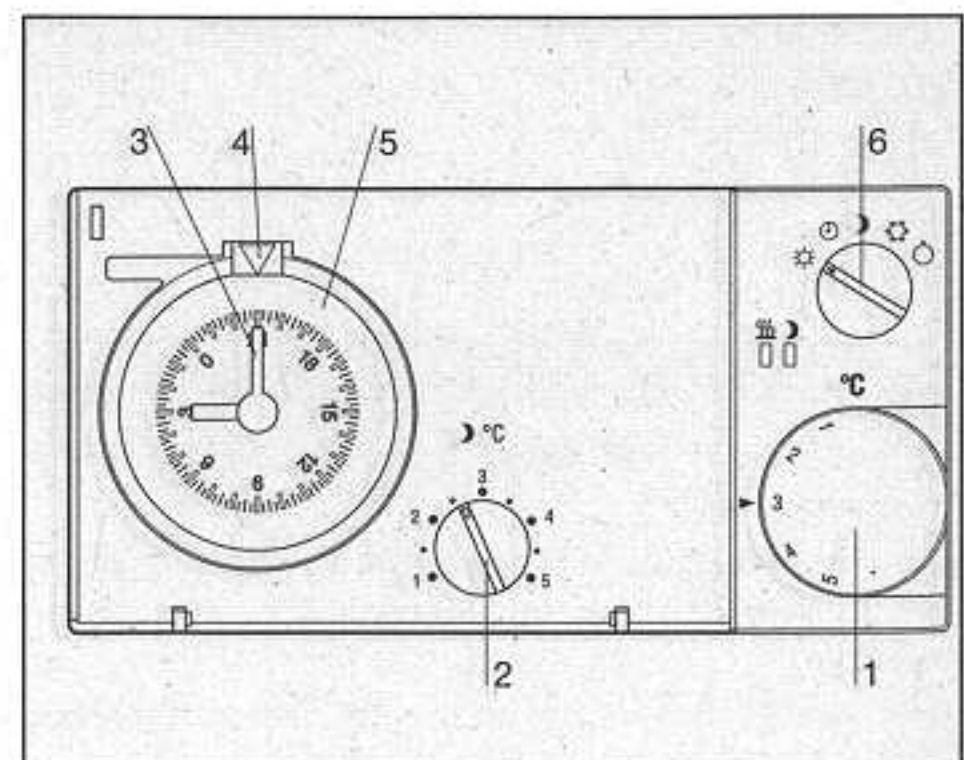
- 3** by putting one finger on dial (3) and turning in any direction, you can set the time.
- 4** Arrow (4) points to the selected time.

Switching time setting

- 5** Bring movable tappets (5) into required position using a pointed object.
Outer ring = comfort temperature
Inner ring = setback temperature

6 Mode selector switch (6) – externally

- Comfort temperature, permanent
- Automatic mode, time-controlled changeover between comfort and setback temperature
- Setback temperature, permanent
- Frost protection, permanent (10°C)
- OFF, there is no control activity. The controller itself is not disconnected from operating voltage.



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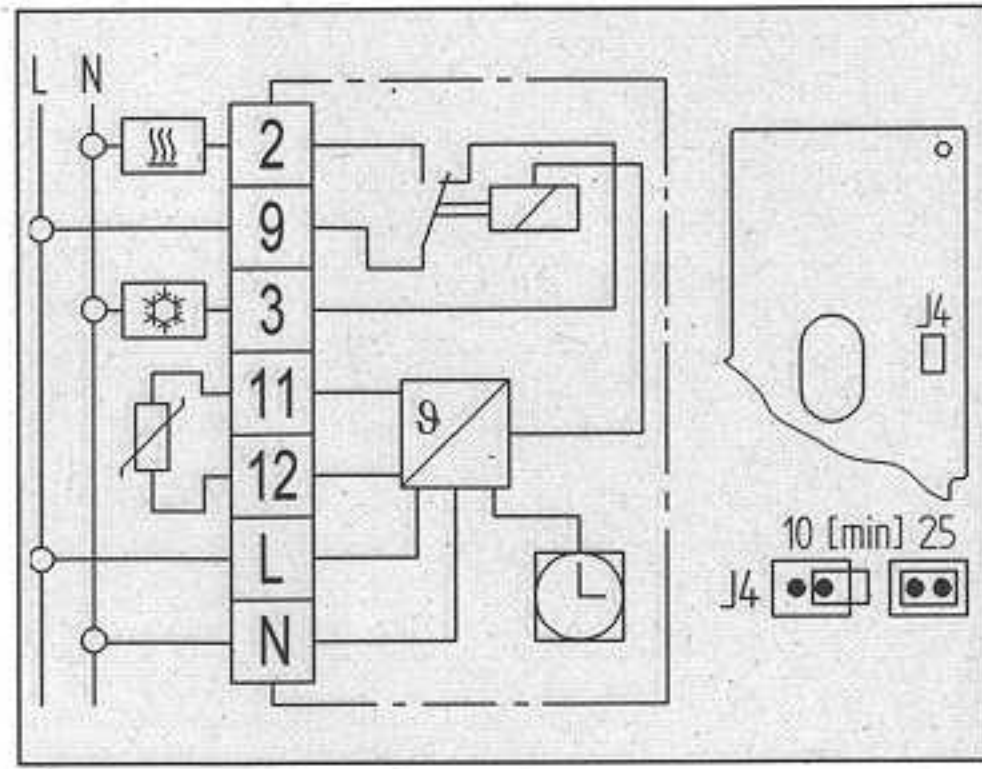
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