

### Individual room temperature control

#### Function:

When combined with the Oventrop electrothermal actuators (item no's. 101 24 . .) and the Oventrop radiator valves, the Oventrop room thermostats help to maintain the selected temperature in individual rooms. Depending on the layout of a heating circuit, it is possible to control a number of radiators or heating zones with one control valve only. When using the Oventrop room thermostat combining time switch or the Oventrop centralized time switch "OVT 230/8", a timed temperature control is possible.

#### Tender specification:

Room thermostat 230 V

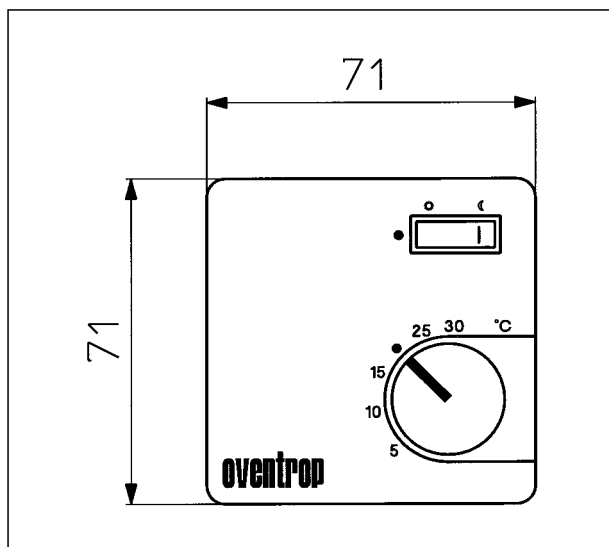
Room thermostat with switch for manual temperature setback, setting of nominal value by means of a control knob, frost protection.

Are used in combination with electrothermal actuators, connectable to "OVT 230/8".

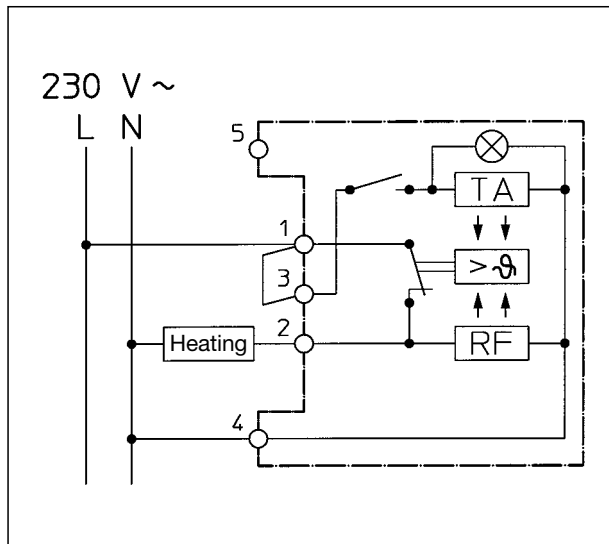
Temperature range:	5 to 30 °C
Temperature setback (switch):	about 5 K
Working voltage:	230 V, 50/60 Hz
Switching current:	10 (4) A with 250 V Connection of a maximum of 10 electrothermal actuators
Type of contact:	1 break contact
Protective system:	IP 30

Timed temperature setback by connection to Oventrop room thermostat combining time switch or Oventrop centralized time switch "OVT 230/8" Item no. 115 20 51

Protection cover for room thermostat 230 V Item no. 115 20 91



Room thermostat 230 V



Wiring scheme

Room thermostat combining time switch 230 V  
 Room thermostat combining time switch for timed temperature setback, additional manual control of constant operation and constant setback, setting of nominal value by means of a control knob, frost protection, control of temperature setback, used in combination with electrothermal actuators.

Temperature range: 5 to 30 °C  
 Temperature setback: about 2 to 10 K (infinitely adjustable)  
 Forward break-over point: 6 (3 heating- and setback phases each)  
 Working voltage: 230 V, 50/60 Hz  
 Switching current, opening (heating): 10 (4) A with 250 V  
 Connection of a maximum of 10 electrothermal actuators  
 closing (cooling): 5 (2) A with 250 V  
 Connection of a maximum of 5 electrothermal actuators  
 Type of contact: 1 change-over contact  
 Reserve operation time switch: 120 h  
 Protective system: IP 30  
 with daily setting:  
 Switching times: programmable in 10 min. intervals

Shortest response time On/Off: 30 min.  
 Item no. 115 25 51  
 with weekly setting  
 Switching times: programmable in 1 hour intervals

Shortest response time On/off: 3 h  
 Item no. 115 25 52

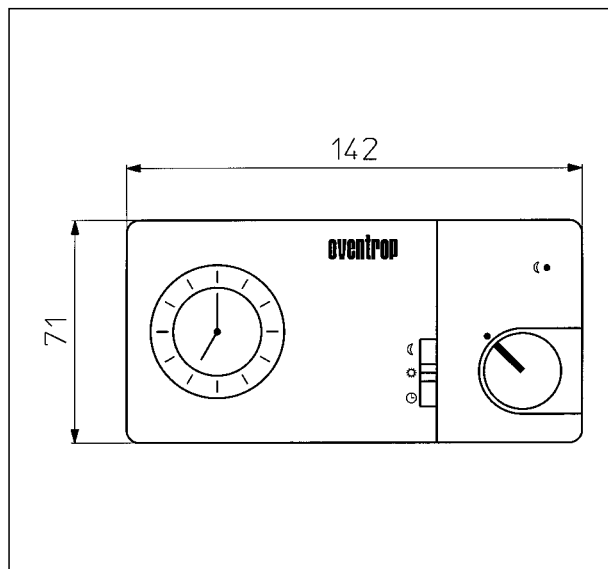
Protection cover for room thermostat combining time switch 230 V: Item no. 115 25 91

Centralized time switch "OVT 230/8"  
 for the modulation of Oventrop room thermostats, 8 individually programmable heating zones, heating zones free from tension, quartz-controlled, with one month backup operation and 224 switching operations per week, programme for up to 59 days holiday, additional manual control of constant operation and constant setback for each heating zone.

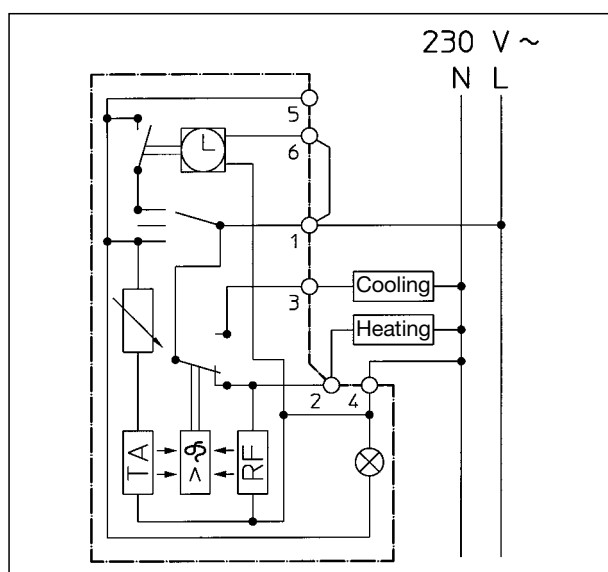
Display: 4-digit LED display  
 Working voltage: 230 V, 50/60 Hz  
 Power consumption: about 12 VA  
 Switching current: per channel 10 (4) A with 250 V  
 Connection of a maximum of 500 room thermostats with 10 electrothermal actuators per channel

Type of contact: 6 change-over contacts, 2 make-/break contacts (changeable) volt free

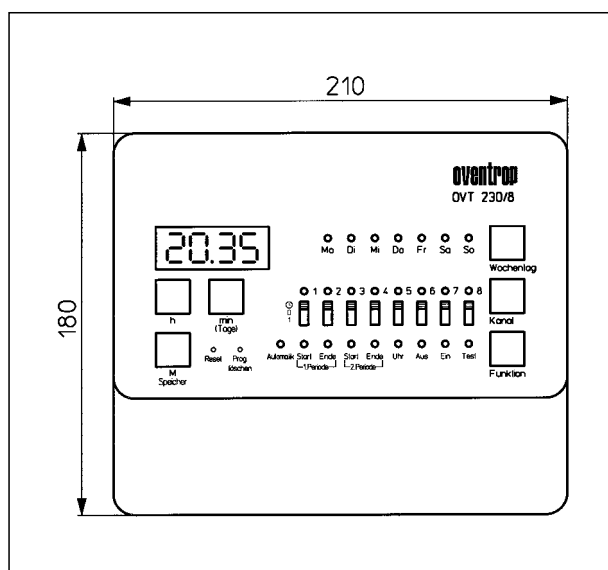
Shortest response time: 1 min.  
 Protective system: IP 54  
 Item no. 115 12 00



Room thermostat combining time switch 230 V



Wiring scheme



Centralized time switch "OVT 230/8"

## Operating instructions for centralized time switch "OVT 230/8"

### Display- and operating elements:

Display of functions:

- A Luminous diodes for days
- B Digital display indicating the time, individual switching zones and switching times
- C Luminous diodes for the entry and display of the individual heating zones
- D Luminous diodes for the programming and display of functions

Automatik = the automatic programme is activated for all heating zones

Start = entry of the starting time for normal temperature

Ende = entry of the ending time for normal temperature

Uhr = setting of time

Aus = the temperatures of all heating zone are set back

Ein = the normal temperature is switched on in all heating zones

Test = test of all luminous diodes

Keys for programming and the display of the entered values:

- 1 Key to set days
- 2 Key to choose heating zones
- 3 Function key to determine the switching status of the individual heating zones
- 4 Key to set minutes
  - Key pressed shortly: display of minutes moves on step by step
  - Key pressed continuously: display of minutes moves on quickly

This key is also used to set the number of days for the holiday programme if the key "Funktion" (3) indicates "Aus" (off).
- 5 Key to set hours
  - Key pressed shortly: display of hours moves on step by step
  - Key pressed continuously: display of hours moves on quickly

This key is also used to set the number of days for the holiday programme if the key "Funktion" (3) indicates "Aus" (off).
- 6 Key to memorize the set values
- 7 Key to chose the mode of operation (automatic operation, constant normal heating, constant temperature setback)
  - Key to cancel programmes and reset
- 8 Reset, for new start of the clock
- 9 Key to cancel programmes

### Setting of the clock:

Press key "Funktion" (3) until the luminous diode "Uhr" lights up. Choose the day by means of key (1) and the time by means of keys (5) and (4).

Press key "Speicher" (6) to store the entered data.

The weekly clock is now set.

### Programming of the switching times:

The periods during which the rooms shall be normally heated are entered. During the other periods, the temperature is set back by 5 K by using the Oventrop room thermostats.

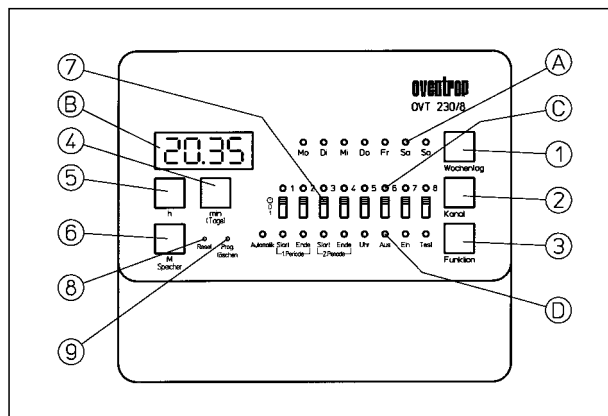
It is useful to draw up a table showing the required switching times before carrying out programming. This should be done for each day and each switching zone.

Choose the day for which programming shall be carried out by means of the key "Wochentag" (1). If the copy function shall be used, it is recommended to start on Monday.

Choose the switching zone by means of the key "Kanal" (2).

Press key "Funktion" (3) until the luminous diode "Start 1. Periode" lights up.

Enter the starting time for the first normal heating period by means of keys "h" and "min" (5 and 4) and confirm by means of key "Speicher" (6).



Now press key "Funktion" (3) until the luminous diode "Ende 1. Periode" lights up. Set the end of the first period by means of keys "h" and "min" (5 and 4) and confirm by means of key "Speicher" (6).

Repeat procedure to programme the second heating period. An individual programme may be stored for each heating zone (1-8) and each day.

### Copying of programmes:

Programming of identical switching times on successive days is simplified by means of the copy function.

After having entered the switching times for the first day, the next day is selected by pressing key "Wochentag" (1). The programme of the previous day is copied by pressing key "Speicher" (6). The display shows I-II. The procedure may be repeated until Sunday. It is not possible to copy the switching times for any day later than Sunday.

### Holiday programme:

In case of longer absence, e.g. during the holidays, the room temperature may be lowered constantly.

Change to "Aus" by means of key "Funktion" (3). Set the number of holidays by using key "Tage" (4). The range of setting is considered as the first holiday.

During this phase of setback, the clock remains on the position "Aus". The key "Speicher" (6) may not be pressed!

At the end of the set period, the normal programme starts again.

### Cancelling all switching time programmes:

Press key "Prog. löschen" (9). All programmes on all channels are cancelled.

The setting of the time and the day remains unchanged.

### Cancelling individual switching times:

First choose the switching zone, the day as well as the switching time which shall be cancelled.

Press key "h" (5) until "-- --" appears on the display.

This has to be done for the start and the end of the respective switching time.

### Constant setting:

If a switching zone shall always be normally heated, the corresponding sliding switch (7) has to be shifted to position "0". For a constant temperature setback in individual switching zones, position "1" has to be chosen.

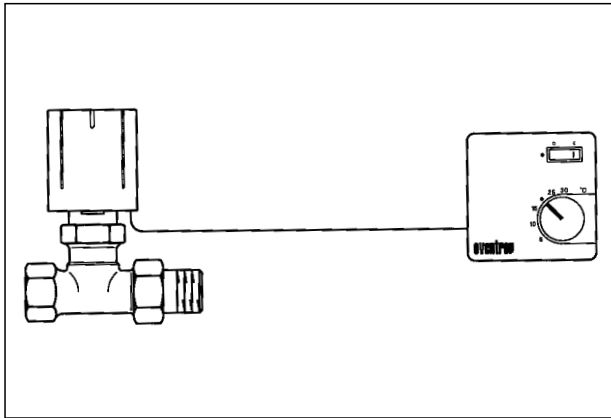
The normal programme remains unchanged and can be started again by shifting the sliding switch (7) to its initial position.

### Switching of switching zones:

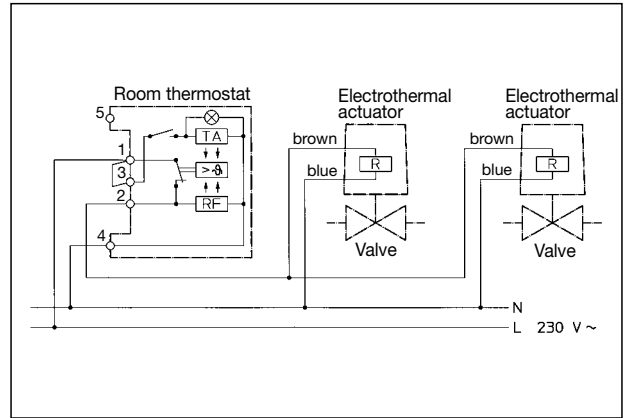
If different switching zones have identical switching times, they do not start at the same time but in 2 second intervals. An overload of the network due to simultaneous switching of several switching zones is thus avoided.

### Fault clearance:

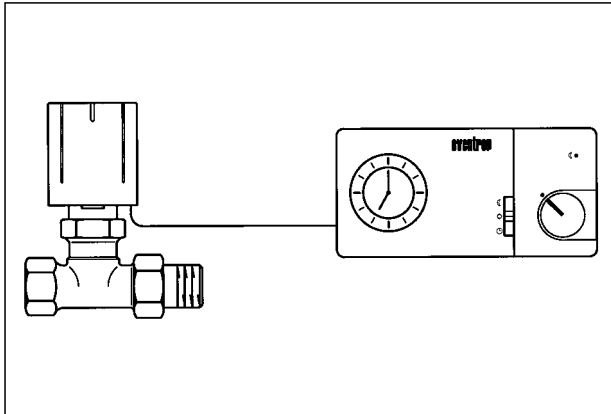
Press key "Reset" (8).



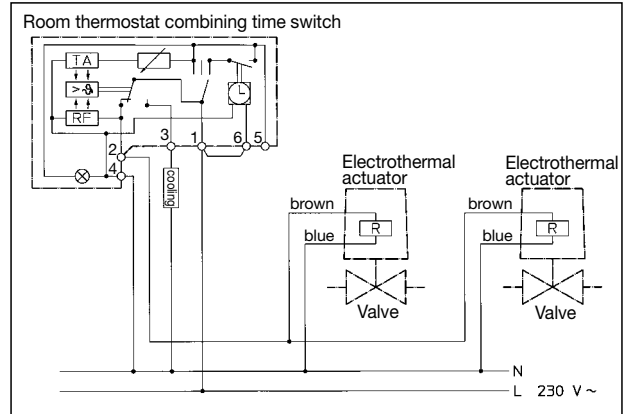
System 1



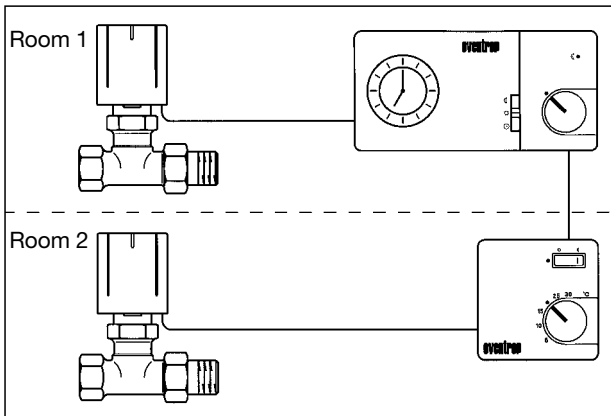
Wiring diagram



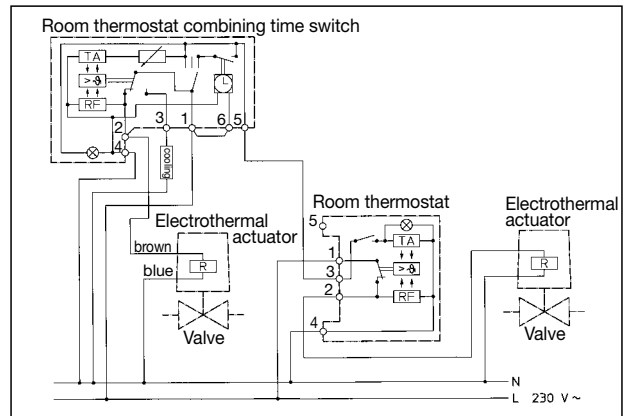
System 1



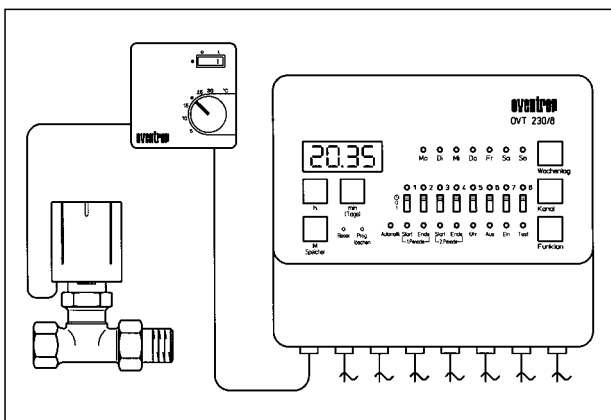
Wiring diagram



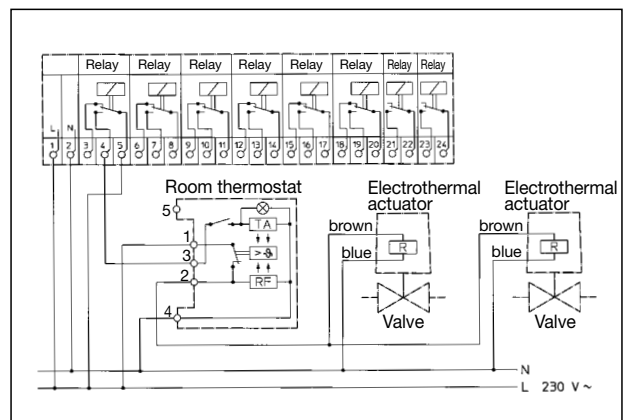
System 1



Wiring diagram



System 1



Wiring diagram

Subject to technical modification without notice.

Product range 1  
ti 113-1/10/11.98/MW

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