



### Device installation

Thermostat is designed for wall mounting into the standard installation box KU68. Power supply of thermostat is 230 V AC. IP protection of installed device is IP31.

Heating device has to be of resistive type. If the floor sensor is used then it has to be installed with the sensor supplied together with the VTM3000.

### Technical features

Supply voltage:	230 VAC 50 Hz
Power consumption in standbay mode:	< 100 mW
Maximum switching load:	2 kW
Hysterezis:	0,5°C
Temperature sensor type:	floor, air
Button ON / OFF:	on front pannel
Room temperature range:	5°C ... 35°C
Floor temperature range:	5°C ... 35°C
Freezing protection:	5°C
Temperature setting and displaying:	in step of 0,2°C
Air sensor sensitivity:	0,4°C
Floor sensor sensitivity:	1°C
Delayed start:	adjustable up to 99 days
Floor sensor type:	NTC thermistor
Mounting:	installation box KU68
Dimensions:	86 x 86 x 50 mm
Weight:	200 g
IP protection:	IP31

### Distributor:

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# VTM3000

programmable room thermostat





Programmable room thermostat VTM3000 is designed for direct electrical floor or convector heating.

Thermostat VTM3000 is designed for wall mounting installation in the standard installation box KU68 and it is equipped by latching relay 230 VAC/16A.

Regulation method is based on switching requested temperature between the set comfort temperature and savings temperature in defined time modes. Thermostat VTM3000 has predefined most often used time schedules in order to make installation and final commissioning user friendly and easy.

- *measuring of real room temperature*
- *automatic change of summer / winter time*
- *clear and sharp graphic LCD display*
- *keyboard lock*

### Regulation modes of VTM3000

- air temperature measurement in the room (temperature sensor is built in the thermostat, floor sensor does not need to be connected)
- floor temperature measurement (external floor sensor is connected to the thermostat)
- air temperature measurement in the room with with maximum floor temperature control

### Time modes

Time mode can be chosen from predefined types:

- **DAY** - every day the same time mode is used
- **WORKING WEEK** - from Monday till Friday the first time mode is used. For Saturday and Sunday the second mode
- **WEEK** - each day a week can have different time mode

Day time mode can have 4 or 6 changes between comfort and set back temperature.

### Display

Thermostat has well organized graphic LCD display for control and setting. Symbols and shorters allow easy understanding of displayed value and device status.

### Special time modes

- 24h SAVING - whole day the low savings temperature is kept
- 24h COMFORT - whole day the comfort temperature is kept
- UN-TIMED thermostat regulates according to the requested temperature like simple thermostat without any reaction on time mode changes

### Real time clock

Thermostat has built in circuit of real time clock with an automatic adjustment from summer to winter time and back. Time and date is saved against power loss or device disconnection during high tariff.

### Heating profile memory

VTM3000 records in to memory the heating usage (connection time of heating device) for actual day, previous day, week and total time from device installation.

### Predefined time modes

Thermostat VTM3000 has predefined time modes with requested comfort and savings temperature. These temperatures comes from most often settings and home schedule. Pre-defined values can be easily customized to fit user specific requirements.

Default setting of requested temperatures:

C - COMFORT temperature	25°C
S - SAVINGS temperature	18°C

Predefined time modes:

6 changes:	06:00 C	4 changes:	06:00 C
	08:00 S		08:00 S
	12:00 C		
	14:00 S		
	16:30 C		16:30 C
	22:30 S		22:30 S

### Keyboard lock and password

Thermostat keyboard can be easily locked against unwilling operation or temperature change.

Service menu can be protected by password only for authorized access.

### Setting and control

Thermostat has LCD display and keyboard at front panel.

Device menu is divided to user part (setting of requested temperature, time modes, clock etc.) and service part (sensors setting, mode types etc.).



### Thermostat control

Description of thermostat keyboard.

- **Menu** - enters user or service menu
- - turns Off / On regulation according to time mode or activates freezing protection temperature 5°C
- **24h** - sets the whole day regulation on savings or comfort temperature
- **OK** - confirmation of selected action
- - parameters value and temperature change