KM694K KELOX wireless room thermostat - Digital

The **KM694K wireless room thermostat** is the intelligent individual room control unit of the future for maximum comfort and energy efficiency for surface temperature control.

The wireless control unit of the wireless system is the **KM694K: wireless room thermostat** in a modern design. With comprehensive functionality for access to all room-specific and system-specific parameters, as well as precise temperature recording, it allows the set-up of perfectly coordinated individual room control for maximum user comfort. Furthermore, it ensures the bi-directional data interchange with the connection unit for the retrieval of numerous status messages, as well as their display on the large, clearly laid out display. It is operated using a rotary knob with a push-turn mechanism and fine detent, as well as the clearly laid out, language-neutral indicator of the high-quality display.

Performance features

- Flat design and small dimensions (86 mm x 86 mm x 26.5 mm)
- Self-explanatory, language-neutral operation and user guidance
- Large, clearly laid out LC display (60 mm x 40 mm)
- Permanent display of room temperature, system time and operating state
- Secure 868-MHz wireless technology for optimum positioning without wiring effort
- 3 menu levels (lifestyle functions, parameters and service) for more safety
- Limitation of the adjustment range of the room temperature
- Comfortable operation with a rotary knob (push-turn mechanism) with fine, dynamic catch)
- Adjustment range 5... 30°C
- High-quality design disk made of scratch-resistant plastic
- ideal for renovation and new buildings

The KE KELIT product quality ensures easy, intuitive installation, operation and maintenance of the entire system.

Function

For the convenience of the user and for energy optimisation, numerous system functions and parameters can be set using the room thermostat. A three-section menu structure (lifestyle functions, parameters and service) guarantees that no important settings are accidentally adjusted – even a separate reset of parameter and service levels to factory settings is possible. The area for installers (service) is also protected against unauthorised access with a PIN code.

Displays

The KM694K wireless room thermostat shines with a functional, language-neutral display. The internationally understandable symbols guarantee intuitive operation.

Symbol	Description	Symbol	Description
⚙	Lifestyle functions	☀	Daytime mode active
⚙	Parameter	☾	Night mode active
🔧	Service	◊◊	Condensation determined
⚠	Error signal	❄	Cooling mode active
🔒	Child lock active	〰	Heating mode active
	Weak battery	ⓘ	Presence active
⏻	Switch-off	👥	Party function active
((·))	Transmission power		Minimum floor temp. fallen below
AUTO	Automatic mode active	🧳	Holiday function active

Use

The rotary knob enables convenient navigation through the intuitive menu structure of room control unit. By turning to the right or left, switching takes place between various functions, by pressing the rotary knob, these are activated, deactivated and selected for further parameterisation. The fine detent of the rotary knob always provides a high-quality feel, from which the navigation is perceptible for the user.

Lifestyle functions	Parameter	Service
  ▪ Party function for hour-by-hour deactivation of the temperature reduction. ▪ Presence for use of the heating time programs from the weekend also non working days (e.g. in case of sickness or holiday at home) ▪ Daytime, night, automatic operating modes ▪ Switch-off of the room temperature controller and consequently the regular operation (the frost protection mode is activated automatically) ▪ Holiday mode for lowering to a pre-defined holiday temperature and consequently saving energy ▪ Child lock for protection from accidental adjustment and incorrect operation	 ▪ Selection of pre-defined lifestyle time programs (any desired change possible using online parameterisation tool) ▪ Separate selection of the desired temperature for various programs, such as daytime/night, ECO and holiday ▪ Setting of the floor temperature (floor sensor required) ▪ Limitation of the adjustable room temperature ▪ Date & time for the entire system ▪ Display of the software versions of the room control unit, base station and web interface of the base station ▪ Reset of the user parameters	▪ protected from third-party access with PIN code (1234) ▪ Individual, optimum coordination of the system using system parameters, such as - Setting of the heating system used for each zone (e.g. underfloor heating, radiator, convector, etc.) - Blocking of switch outputs based on the activated operating mode (heating/cooling) - Active heating/cooling switching - Activate/deactivate Smart Start function - Define activation locks with/without PIN - Set correction of the actual value recording - Global switch-over of the direction of operation of the system (currentless-open / currentless-closed) - Set frost protection temperature - Block heating/cooling for individual zones - Switch between Fahrenheit/Celsius - Set numerous pump/boiler parameters

Comfort programs – Smart-Start/-Stop mode

Comfort programs contain pre-defined heating times, which can be used for working days (1-5) or the weekend (6-7). Outside of the heating times, the system switches to night mode (reduction mode). Select the comfort programs in the Parameter menu.
The **Smart-Start/-Stop mode** of the system calculates the required lead times, so that the required temperature is available at the start and end time of the heating programs.

| Program	Comfort time 1	Comfort time 2
P0	05:30 – 21:00	–
P1	04:30 – 08:30	17:30 – 21:30
P2	06:30 – 10:00	18:00 – 22:00
P3	07:30 – 17:30	–

You can create individual comfort programs using the web interface at www.ezr-home.de and transfer them to the receiver using a MicroSD card.

Technical data

| Type designations	KM694K
Article number	5881330
Power supply	2x LR03/AAA (Mirco) alkaline batteries
Battery service life	>2 years
Protected against polarity reversal	electronically via MOSFET switch
Connection for remote sensor for floor temperature monitoring	KM699 optionally available
Wireless technology	Wireless, 868 MHz SRD band
Degree of protection/protection class	IP20 / III
Permitted ambient temperature	0 °C to 50 °C
Permitted ambient humidity	5 to 80 %, non-condensing
Storage/transport temperature	-10 °C to +50 °C
Standards and regulations	EN 60730-1 / EN 60730-2-9 / ElektroG, or RoHS compliance / DIN EN 300220-1:2013-02 / EN 301489-3:2013-12
Material	ABS (housing, base, rotary knob) / PMMA (disk)
Colour	RAL9010 (pure white)
Outer dimensions	86 x 86 x 21.6 mm / 26.5 mm
Weight	115 g
visible range of display	40 x 60 mm
Encoder	30 catches at 360°
Adjustment range of desired temperature specification	5 to 30°C
Resolution of desired temperature specification	0.2 K
Measurement range of actual temperature recording (int. sensor)	0… 40°C
Measurement precision of internal NTC	±0.3 K

Dimensions
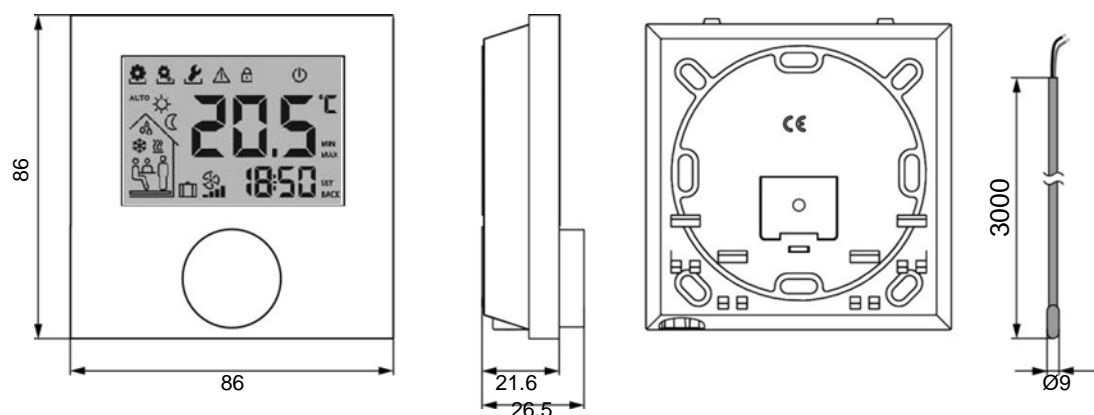
Dimensions KM694K KELOX wireless room thermostat thermostat - Digital (details in mm)
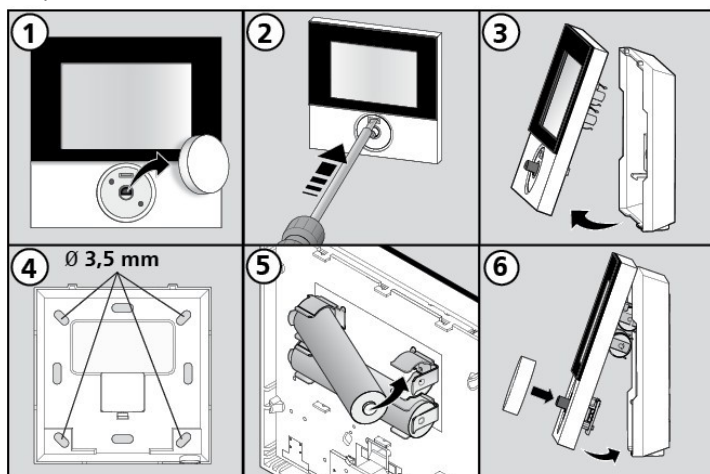
Installation instructions

Requirements

The secure 868-MHz wireless technology of the system offers users and installers numerous advantages, such as the optimal positioning of the room control unit in the allocated zone without any wiring effort. This means that tedious breaking and cleaning activities are not necessary. At the same time, all assembly requirements can be easily complied with.
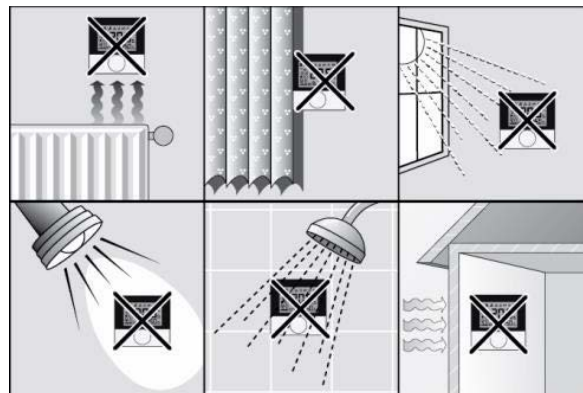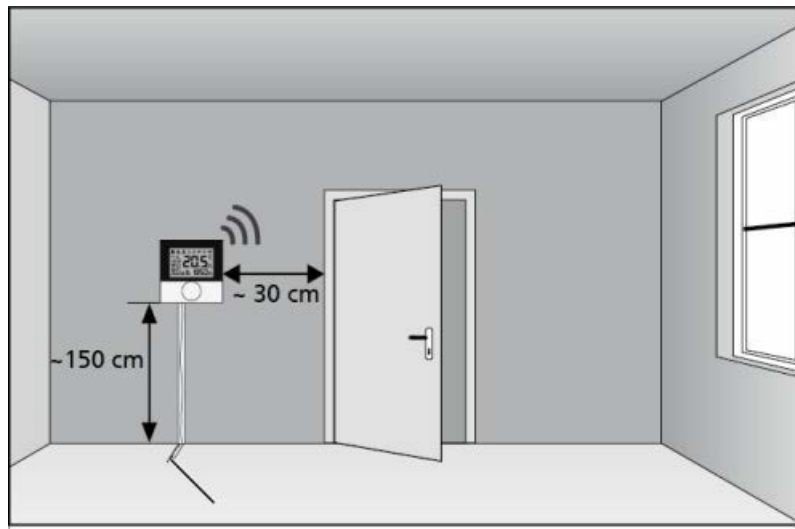
Assembly

The assembly of the room thermostats takes place conveniently as surface-mounting or on a flush-mounted socket with only a few quick steps.

Troubleshooting

Display	Meaning	Possible correction
🔋	Battery capacity low	• Battery change required soon.
⚠📶	Wireless connection to receiver interrupted	• Check power supply of the receiver. • Use the repeater accessory or active antenna for a larger wireless range. • If defective, contact your electrical installer.
🔧⚠ Err 0001	Internal temperature sensor defective	• Room control unit must be replaced.
🔧⚠ Err 0002	external temperature sensor defective	• Replacement necessary, contact your electrical installer.
🔧⚠🔋 Err 0004	Battery capacity critical	• Replace batteries immediately.
🔧⚠📶 Err 0005	Connection unit not found, in spite of successful pairing	• Check power supply of the receiver. • Pair room thermostat again. • Contact your electrical installer.

Additional information at www.kekelit.com/control