

# LK 110 SmartComfort

## TECHNICAL DATA

Primary voltage, adapter	100-240 VAC, 50/60 Hz
Secondary voltage, adapter	24 VDC
Ambient temperature, actuator	Min. 0°C / Max. +50°C (in operation)
Curve slope	1.0 - 9.9
Parallel displacement	± 10°C
Min. supply temperature	+5°C - +40°C
Max. supply temperature	+20°C - +99°C
Power consumption	< 3 VA
Angle of rotation	90°
Torque	5 Nm
Protection class, actuator	IP 40



### Items included

- Temperature controller
- Adapter
- Mounting kit for mixing valve
- Supply temperature sensor with 1 m cable
- Outdoor temperature sensor with 15 m cable and protective casing





## Weather Compensated Temperature Controller

LK 110 SmartComfort is an electronic weather compensated temperature controller for hydronic radiator and underfloor heating systems. By measuring the supply and outdoor temperatures LK 110 SmartComfort regulates the mixing valve to provide the system with the exact amount of heat required in the building at any given time. The current supply and outdoor temperatures can be read on the controller display.

LK 110 SmartComfort has an automatic choice of direction to adapt to the direction of the mixing valve. LED-indicators show if the controller is opening or closing the valve. The supply temperature can be limited with a minimum and a maximum value. Symbols on the controller show the chosen function and the LED display shows the setting or value of the function. Adjustments are easily made with the push buttons marked “+” and “-”.

Dependent on the dimension of the heating system and the insulation of the building, the heating curve may need to be adjusted in order to achieve the desired room temperature. The curve slope and the parallel displacement are easily adjustable with the push buttons.

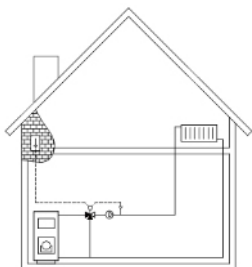
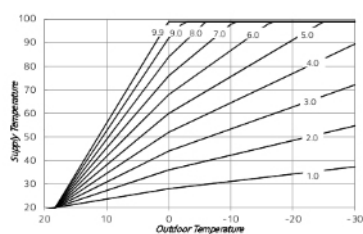
LK 110 SmartComfort is easy to install onto new as well as existing mixing valves. Mounting kits for installation onto mixing valves of other brands are available - see separate page.

The plug-in adapter provides quick and easy do-it-yourself installation. In case of a power outage the controller will keep its settings and the actuator will stop in its current position. By disengaging the controller, the mixing valve can be manually operated.

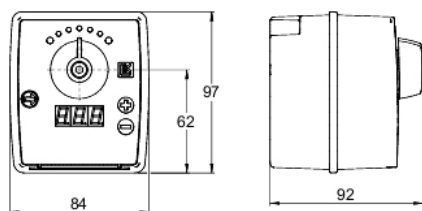
For further energy saving a pump control, SmartComfort PC, can easily be connected to the controller - see under Accessories. SmartComfort PC stops the circulating pump when no heat is required and exercises pump and mixing valve separately every two days, thus eliminating the risk of pump or mixing valve stalling after an intermission.

Room temperature unit SmartComfort RT alternatively SmartComfort RTW is available as an accessory. For more information see product sheets for LK 120 and LK 130 SmartComfort.

### Curve Slope



### LK 110 SMARTCOMFORT



### SPARE PARTS AND ACCESSORIES

Article number	Article	Weight kg
181243	LK 110 SmartComfort - EU	0.7
181250	LK 110 SmartComfort - UK	0.7
181251	LK 110 SmartComfort - US	0.7

Article number	Article	Position number
187099	Temperature controller SmartComfort	1
025010	Adapter 24 VDC - EU	2
025011	Adapter 24 VDC - UK	2
025012	Adapter24 VDC - US	2
181260	Mounting kit LK	3
025013	Supply temperature sensor 1 m cable	4
025014	Outdoor temperature sensor 15 m cable	5
025020	Protective casing for outdoor temperature sensor	6
187096	Room temperature unit SmartComfort RT	7
025025	Cable for SmartComfort RT 15 m	8
025026	Extension cable for SmartComfort RT 15 m	9
187097	Room temperature unit SmartComfort RTW	10
025024	Wireless receiver for SmartComfort RTW	11
187095	Pump control SmartComfort PC	12