

LEK24 DIFFERENTIAL TEMPERATURE THERMOSTAT

Temperature difference thermostat LEK 24 detects temperatures with two PTC-semiconductor sensors (SyxthSense Pd Range). Any two PTC1000 type sensors can be used to measure the temperature difference. Typical sensor types used are room (TEH1000), duct (TEK1000), water (TEAT 1000) and outdoor (TEU1000).

When the temperature TE1 drops below the temperature TE2 for the amount of the set value, the thermostat relay will switch on. It will switch off when the temperature difference drops below the set point minus hysteresis. LED is on when the relay is switched on. The temperature data can be brought from the temperature sensor, or from another thermostat (LK 24/LEK 24) as voltage signal. The jumper of the input resistance must be removed from the slave units inside the housing (see commissioning).



The thermostat is housed in an 11-pole relay box

Model Types	Model	Description
	LEK24	LEK24 Differential Temperature Thermostat
Technical Data	Power Supply	24Vac, 2VA
	Inputs	2 x Resistive (SyxthSense Pd Range PTC1000 Sensors, 1000Ω/25°C)
	Outputs	1 x 230V, 5A resistive relay, change-over contact
	Alarm relay contact	1 A/60 V
	Dimensions	35W x 79H x 95D mm
User Settings	Set Point	0°C..+10°C Difference
	Hysteresis	0.2 .. 5°C
Accessories	Model	Description
	TEK1000	TEK1000 Duct Temperature Sensor
	TEU1000	TEU1000 Outdoor Temperature Sensor
	TEH1000	TEH1000 Room Temperature Sensor
	TEAT1000	TEAT1000 Water Temperature Sensor

Wiring Terminals



The electrical installation, device connection and commissioning can only be carried out by qualified professionals and according to the local wiring regulations!

10	24 Vac
2	0 Vac
7	Output relay common contact, 230V 5A (resistive)
⋈	RO - normally closed (NC) contact
⊕	RO - normally open (NO) contact
11	11 - TE1 Sensor, PTC1000
1	1 - Common, Sensor,
3	3 - TE1 Sensor, PTC1000

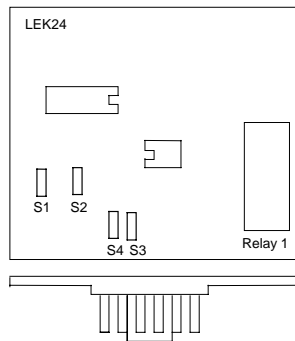
Commissioning

Selecting the operations. Settings are located inside the casing on the PCB.

TE 2		1000 Ω	2000 Ω	thermostat sensor	other therm.
	S1	closed	open		
	S2			closed	open

TE 1		1000 Ω	2000 Ω	thermostat sensor	other therm.
	S3			closed	open
	S4	closed	open		

NOTE! When the sensor inputs have been coded to be measured parallel with other equipment (e.g. LK 24) , the S1 and S4 settings will have no effect on the device.



Dimensions

