

Technical Specifications

Electrical Characteristics

Voltage Supply	230V +10 -15% 50/60Hz
Consumption	1.5VA
Output	1 Changeover Contact 2A 230V AC1

Functional Characteristics

4 Temperature Ranges	-30 to 0°C 0 to +30°C +30 to +60°C +60°C to +90°C (Varying accuracy)
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Environment

Working Temperature	-10 to +50°C
Storage Temperature	-20 to +70°C

Connection Capacity

Flexible	1 to 6mm ²
Rigid	1.5 to 10mm ²
Probe	Maximum Distance 50m

Main Characteristics

Multiple Applications

A single device to solve all your problems of regulation or temperature control, from cold room to incubator.

Varying Accuracy

The accuracy can be adapted according to the application. e.g.: low for ambient temperature regulation, high for incubator regulation.

Safety Feature for Probe Failure

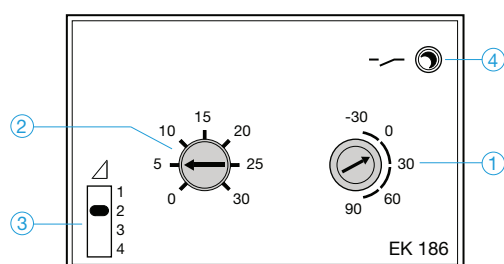
To protect the installation in case of disconnection from the probe. Various connections can be made so the thermostat will be:

- Permanent OFF
- Permanent ON
- Cyclical operation: output ON 1 minute in every 4

Display

State of output.

Product Presentation



1. Selection of the range
2. Adjustment of the temperature setting
3. Selection of temperature range
4. Display of state of output

Working Principle

The **EK186** regulates the temperature according to all or nothing principle, it can be associated with different probes, according to the application the accuracy is a function of the temperature range and is selected by a slide switch.

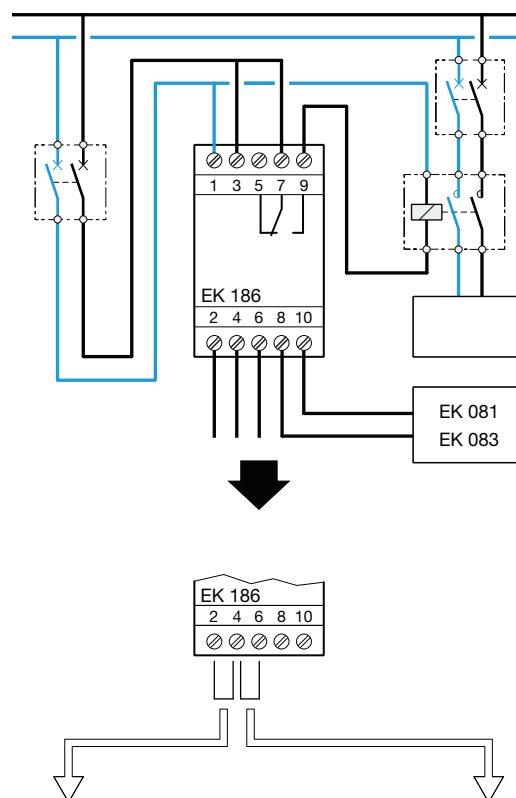
Position on Slide Switch	Temperature range °C			
	-30 to 0	0 to 30	30 to 60	60 to 90
1	± 2.15	± 2.54	± 2.98	± 3.43
2	± 0.15	± 0.18	± 0.21	± 0.24
3	± 0.38	± 0.45	± 0.53	± 0.61
4	± 1.23	± 1.45	± 1.70	± 1.96

Bold - Preferential accuracies for each temperature range.

Example of Choice of Accuracy

- Regulation of ambient temperature
Range: 0 to +30°C
Accuracy: ± 0.18°C = 2
- Control of hot water outgoing circuit
Range: 30 to +60°C
Accuracy: ± 0.53°C = 3

Electrical Connection Caution



When the temperature ranges 30 to 60°C and 60 to 90°C are selected and the temperature measured by the probe is below 30°C, the safety feature for probe failure must be "permanent on", until the measured temperature reaches the minimum temperature corresponding to the range (i.e. 30°C for the range 30°C to 60°C and 60°C for the range 60°C to 90°C).