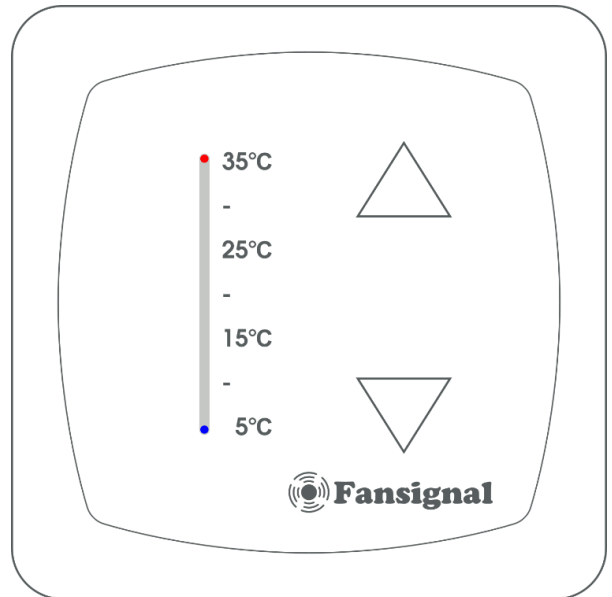


# Manual TC-thermo 960.2xx

Technical data:	
Power supply	10V - 16V DC, 15 mA
Output signal (no-load)	0,15 - 10V ( $\pm 2\%$ )
Minimum output adjustable	0,15 - 2,5V ( $\pm 2\%$ )
Preferred temperature	5 to 35 °C
Bandwidth	2 °C to 6 °C
DAC output	256 steps of 0,04V (8 bit)
Core diameter	24 - 18 AWG/ 0.823 - 0.205 mm <sup>2</sup>
Ambient temperature	-10°C to +50°C
Humidity	5-95% RH (non-condensing)
Enclosure IP-classification	IP 44, zone 2



## Led strip designation:

- When the signaller is switched on, the leds light up in quick succession.
- When the symbols  $\triangle$  and  $\nabla$  are not touched, the led strip will display the temperature.
- When the blue LED flashes, the temperature is below 5 °C.
- When the red LED flashes, the temperature is above 35 °C.
- When a symbol  $\triangle$  or  $\nabla$  is touched, the LED strip shows the desired temperature setting.
- When setting the minimum output voltage, the led strip shows the output voltage with a scale of 0 to 2.5V.
- When setting the bandwidth, the led strip shows the bandwidth 2 °C to 6 °C.

## Thermostat settings:

- Desired temperature 5 to 35 °C
- Minimum ventilation, for sufficient fresh air.
- Bandwidth for limiting temperature fluctuations.




## Setting mode indication:


- When in minimum output voltage setting mode, the blue LED flashes slowly.
- When in setting mode for cooling/heating, the blue or red LED flashes quickly.
- When in brightness setting mode of the LEDs, the middle LED lights up.
- When in bandwidth setting mode, the red LED flashes slowly.

## Setting the minimum output voltage (minimum ventilation):

1. Double tap  $\nabla$ , the blue led will flash. The signaller is now in minimum output voltage setting mode.
2. The minimum output voltage can now be set from 0 to 2,5V.
  - Touch and hold  $\triangle$  to adjust up.
  - Touch and hold  $\nabla$  to adjust down.The touch time affects the control speed.
3. After setting, it takes approx. 10 seconds before the setting mode is exited.




### Cooling/heating switch mode:

1. Touch and hold  until the blue or red led flashes. The signaler is now in cooling/heating switch mode.
2. Cooling and heating can now be switched over.
  - Double tap  to switch to heating, the red led flashes.
  - Double tap  to switch to cooling, the blue led flashes.
3. After setting, the leds light up shortly after each other. It then takes approx. 5 seconds before the setting mode is exited.



 By default, the thermostat is set to cooling (ventilation), then the output voltage increases when the temperature rises. The thermostat can be set to heating, then the output voltage decreases as the temperature increases.

### Setting the bandwidth:




The bandwidth depends on the size of the room. The larger the room, the smaller the bandwidth and the smaller the room, the larger the bandwidth.

1. Double tap , the red led will flash.
2. The bandwidth can now be set from 2°C to 6°C.
  - Touch and hold  to adjust up.
  - Touch and hold  to adjust down.
3. After setting, it takes approx. 10 seconds before the setting mode is exited.

### Setting the preferred temperature:

1. Touch and hold  or  to set the preferred temperature. The led strip now shows the desired temperature.
2. After setting, it takes approx. 5 seconds before the setting mode is exited.

### Setting brightness LEDs:

1. Touch and hold  until the middle LED of the LED strip lights up. The signaler is now in brightness adjustment mode.
2. Touch and hold  or  to set the brightness.
3. After setting, the leds light up shortly after each other. It then takes approx. 5 seconds before the setting mode is exited.