



USER MANUAL

# TR 61 – TR 62

## Pt100 thermometers

### Device description

1. Backlight key
2. OK key
3. On/Off/Esc key
4. Selection key
5. Hold/min/max key



### General features

Measuring element	Pt100 class A
Number of channels	TR61: 1 channel / TR62: 2 channels
Display	4 lines, LCD technology. Size: 50 x 36 mm. 2 lines of 5 digits with 7 segments (value) / 2 lines of 5 digits with 16 segments (unit)
Housing	ABS, protection IP54
Keypad	5 keys
Connector	Compensated miniature female connectors
European directives	2014/30/EU EMC; 2014/35/EU Low Voltage; 2011/65/EU RoHS II; 2012/19/EU WEEE
Power supply	4 batteries AAA LR03 1.5 V
Battery life	180 hours
Ambience	Neutral gas
Conditions of use (°C, %RH, m)	From 0 to +50 °C. In non condensing conditions. From 0 to 2000 m.
Storage temperature	From -20 to +80 °C
Auto shut-off	Adjustable from 0 to 120 min
Weight	210 g

### Technical specifications

Pt100 probes (see related data sheet)

Measuring units	Measuring range	Accuracy <sup>1</sup>	Resolution
°C, °F	From -100 to +400 °C	±0.4% of reading ±0.3 °C	0.1 °C

(1) All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

## Perform a measurement

- Turn the device on by pressing "On/Off/Esc".  
Put the probe(s) to the required location.  
The device displays the temperature measurement.  
If the thermometer used is the TR62 with two connected probes, the device will display the two measurements.
- Press "OK" to display the delta T between the two measured temperatures.

## Hold the measurement, display the maximum and minimum

During a measurement:

- Press "Hold/min/max".  
"Hold" is displayed and the measurement is frozen.
- Press again "Hold/min/max".  
The device displays the maximum value measured since the last questioning of the frozen channel at the top of the screen and the minimum value measured since the last questioning of the frozen channel at the bottom of the screen.
- For a TR 62 with two connected probes:  
The device displays the maximum value of the C1 probe measured since the last questioning of the frozen channel at the top of the screen and the minimum value of the C1 probe measured since the last questioning of the frozen channel at the bottom of the screen.
- Press again "Hold/min/max".  
The device displays the maximum value of the C2 probe measured since the last questioning of the frozen channel at the top of the screen and the minimum value of the C2 probe measured since the last questioning of the frozen channel at the bottom of the screen.
- Press again Hold/min/max.  
The device displays the maximum value of the delta T since the last questioning of the frozen channel at the top of the screen and the minimum value of the delta T since the last questioning of the frozen channel at the bottom of the screen.
- Press "On/Off/Esc" to return to the measurement display.

## Set the device

### Select the temperature unit

The device is on and displays the measurement.

- Press "Selection" until "UNIT" blinks on screen. Press "OK".  
The unit currently used blinks on screen.
- Press "Selection" until the required unit appears: °C or °F.
- Press "OK" to confirm the unit selection.  
"UNIT" blinks on screen.
- Press "On/Off/Esc" to return to the measurement display.

### Set the auto shut-off

The device is on and displays the measurement.

- Press "Selection" until "AUTO OFF" blinks on screen. Press "OK".  
The time before the device auto shut-off blinks at the bottom of the screen.
- Press "Selection" until the required time before the device auto shut-off appears: 15, 30, 45, 60, 75, 90, 105, 120 minutes or OFF.
- Press "OK" to confirm the selection.  
"AUTO OFF" blinks on screen.
- Press "On/Off/Esc" to return to the measurement display.

### Activate or deactivate the keys beep

The device is on and displays the measurement.

- Press "Selection" until "BEEP" blinks on screen. Press "OK".  
"OFF" or "ON" blinks on screen.
- Press "Selection" to activate the keys beep "ON" or deactivate it "OFF".
- Press "OK" to confirm the selection.  
"BEEP" blinks on screen.
- Press "On/Off/Esc" to return to the measurement display.

## Set the alarm

This function allows to activate a temperature alarm on channel 1 when the device reaches or exceeds a previously defined threshold. This threshold is between -100 and +400 °C.

The device is on and displays the measurement.

- Press "Selection" until "AL 1" blinks on screen.
- Press "OK".  
The first digit blinks. This digit also allows to deactivate the alarm.
- Press "Selection" to select the value of the first digit: -, 0, 1 or OFF.
- If "Off" is selected, the alarm is deactivated. Press "OK" to confirm, "AL 1" blinks on screen.
- If -, 0 or 1 is selected, press "OK". The next digit blinks, press "Selection" to select its value then press "OK" to confirm. Perform the same procedure to select the value of the following digits (press "On/Off/Esc" to return to the previous digit). Press "OK" when the last digit is set, "AL 1" blinks on screen.
- Press "On/Off/Esc" to return to the measurement display.

## Activate the backlight

The device is on.

- Press "Backlight" to activate the device backlight.
- Press again this key to deactivate the backlight.



## Turn off the device

To turn off the device:

- Carry out a long press on "On/Off/Esc".

## Replace the batteries

- Remove the front part at the back of the device.
- Change the old batteries by AAA LR03 1.5V batteries.
- Replace the front

