

# Pt100 Thermometers

## TR 61 – TR 62



### KEY POINTS

- Adjustable alarms
- Adjustable backlight
- Hold-min-max function
- Selection of units

### TECHNICAL FEATURES

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



### SPECIFICATIONS

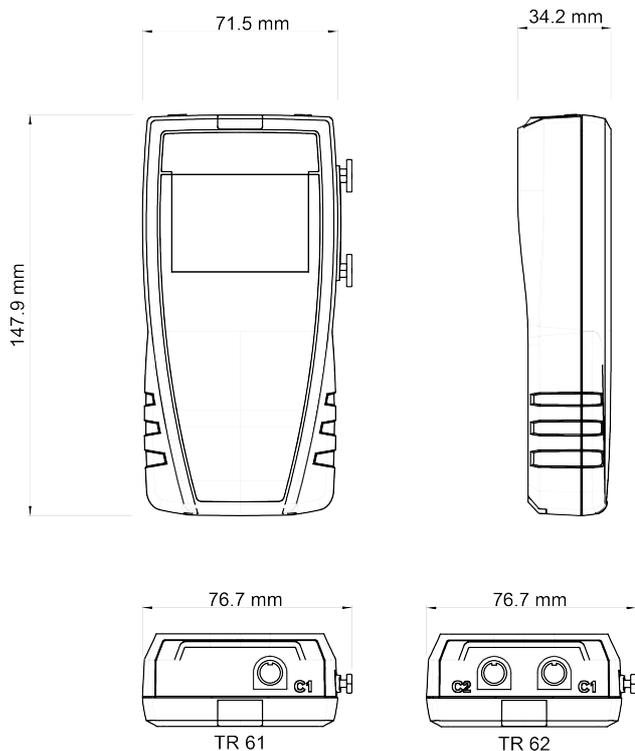
Measuring units	Measuring range	Accuracy*	Resolution
<b>Pt100 probes (see related data sheet)</b>			
°C, °F	From -100 to +400°C	±0.4% of reading ±0.3°C	0.1°C

\* 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.

### FUNCTIONS

- Selection of temperature units
- Adjustable alarms
- Hold function
- Display of minimum and maximum values
- Configurable auto shut-off
- Backlight
- Delta temperature (TR62)

## DIMENSIONS



## OPERATING PRINCIPLES

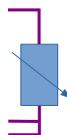
### Thermometer: Pt100 probe

Pt100 is a resistance with a positive temperature coefficient which varies according to the temperature. The higher the temperature is, the more the value of the resistance increases.

ie: for  $0^{\circ}\text{C} \approx 100 \Omega$

for  $100^{\circ}\text{C} \approx 138.5 \Omega$ .

### Platinum resistance



## WARRANTY

Instruments have 1-year guarantee for any manufacturing defect (return to our After-Sales Service required for appraisal).

## PRECAUTIONS FOR USE

Please always use the device in accordance with its intended use and within parameters described in the technical features in order not to compromise the protection ensured by the device.

## SUPPLIED WITH

Instruments are supplied with an adjustment certificate.

## ACCESSORIES

- **CQ 15:** Magnetic protective housing
- **RTE:** Telescopic extension, length 1m, with index at  $90^{\circ}$
- Pt100 temperature probe
- Black ball  $\varnothing 150$  mm with stuffing box for temperature probe  $\varnothing 4.5$  mm. Other on request.
- **ST 110:** Transport case
- Calibration certificate



## MAINTENANCE

We carry out calibration, adjustment and maintenance of your instruments to guarantee a constant level of quality of your measurements. As part of Quality Assurance Standards, we recommend you to carry out a yearly checking.