

# Pt100 Thermometer TR 110 – TR 112

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CE



## 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>	TR110 : 1 channel TR112 : 2 channels
<b>Display</b>	4 lines, LCD technology. Sizes 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>Conformity</b>	Directives EMC 2004/108/CE and EN 61010-1
<b>Power supply</b>	4 batteries AAA LR03 1.5 V
<b>Battery life</b>	180 hours
<b>Ambience</b>	Neutral gas
<b>Operating temperature</b>	From 0 to +50 °C
<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 <sup>1</sup>	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

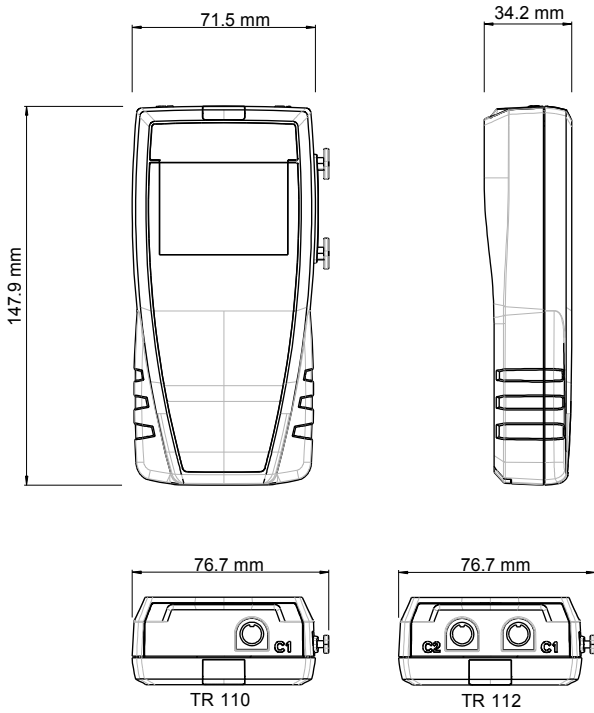
<sup>1</sup>All accuracies indicated in this document were stated in laboratory conditions and can be guaranteed for measurements carried out in the same conditions, or carried out with required compensation.

## FUNCTIONS

- Selection of temperature units
- Adjustable alarms
- Hold function
- Display of minimum and maximum values
- Configurable auto shut-off
- Backlight
- Delta temperature (TR112)

\*Except TR112 S

## DIMENSIONS



## OPERATING PRINCIPLES

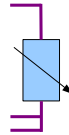
### Thermometer : Pt100 probe

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°C  $\approx$  100  $\Omega$

For 100°C  $\approx$  138,5  $\Omega$ .

Platinum resistance



## GUARANTEE

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

## SUPPLIED WITH

- Instruments are supplied with :
- Calibration certificate\*
  - Transport case (ref : ST 110)



\*Except TR112 S

## ACCESSORIES

**CQ 15** : Magnetic protective housing



**RTE** : Telescopic extension, length 1m, with index at 90°

Pt100 temperature probe

Black ball  $\varnothing$  150 mm with stuffing box for temperature probe  $\varnothing$  4.5 mm. Other on request.

**MT 51** : ABS transport case



## 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.

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