

# Thermocouple thermometers

## TK 110 – TK 112

### KEY POINTS

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

### TECHNICAL FEATURES

<b>Measuring elements</b>	Thermocouple K, J, T ou S
<b>Channels number</b>	TK110 : 1 channel TK112 : 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>Boîtier</b>	ABS, protection IP54
<b>Clavier</b>	5 keys
<b>Connector engineering</b>	Compensated miniature female connectors
<b>Conformité</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

Models	Measuring units	Measuring range	Accuracy <sup>1</sup>	Resolution
<b>Thermocouple probes (see related data sheet)</b>				
Thermocouple K	°C, °F	From -200 to +1300 °C	±1.1 °C or ±0.4% of reading value*	0.1 °C
Thermocouple J	°C, °F	From -100 to +750 °C	±0.8 °C or ±0.4% of reading value*	0.1 °C
Thermocouple T	°C, °F	From -200 to +400 °C	±0.5 °C or ±0.4% of reading value*	0.1 °C
Thermocouple S	°C, °F	From 0 to 1760 °C	±1 °C or ±0.4% of reading value*	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 with required compensation.

\* The accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the bigger value is considered.

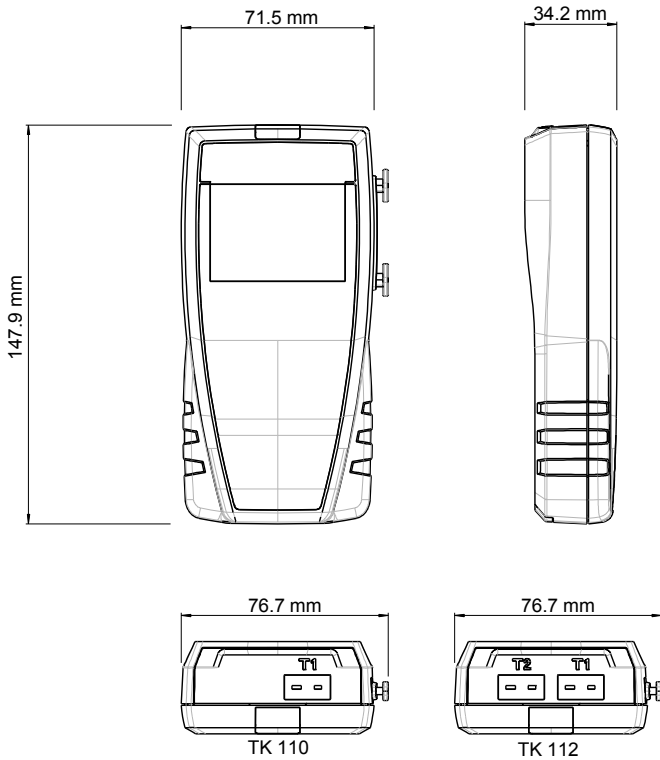
\*Except TK112 S



### FUNCTIONS

- Selection of temperature units
- Adjustable alarms
- Hold function
- Display of minimum and maximum values
- Configurable auto shut-off
- Backlight
- Delta temperature (TK112)

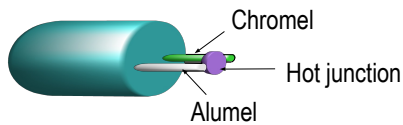
## DIMENSIONS



## OPERATING PRINCIPLES

According to the Seebeck effect, when two wires composed of different metals are joined at both ends, an electric circuit is formed. This voltage varies according to the measured temperature.

### Thermocouple K example



## 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 TK112 S

## ACCESSORIES

**CQ 15** : Magnetic protective housing



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

Thermocouple temperature probes

Black ball Ø 150 mm with stuffing box for temperature probe Ø 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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