



**Thermocouple thermometers**  
**TK 100 - TK 102**



**Functions**

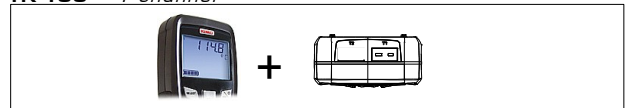
- Temperature
- Selection of units
- HOLD function
- Simplified mode function
- Minimum and maximum values
- Adjustable backlight
- Delta T (TK 102)
- Adjustable automatic shut-off

**Technical features**

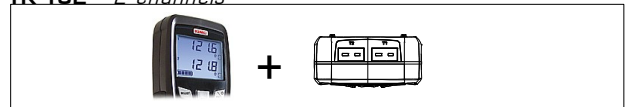
<b>Measuring elements</b> .....	Thermocouple K, J, T or S class 1
<b>Display</b> .....	2 lines, LCD technology. Sizes 50 x 34.9 mm. 1 line of 5 digits with 7 segments (value) 1 line of 5 digits with 16 segments (unit)
<b>Housing</b> .....	Shock-proof made of ABS, IP54 protection or IP67 with CEP 150 protective cover
<b>Keypad</b> .....	Metal-coated with 5 keys
<b>Conformity</b> .....	electromagnetical compatibility (NF EN 61326-1 guideline)
<b>Power supply</b> .....	1 alkaline battery 9V 6LR61
<b>Operating temperature</b> .....	from 0 to 50°C
<b>Storage temperature</b> .....	from -20 to +80°C
<b>Auto shut-off</b> .....	5 choices: "Off", 3, 6, 10 or 15 minutes
<b>Weight</b> .....	190g
<b>Languages</b> .....	French, english



**TK 100 - 1 channel**



**TK 102 - 2 channels**



\*except class 100S

## Specifications

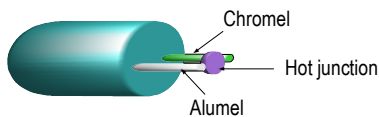
	Measuring units	Measuring ranges	Accuracy*	Resolutions
<b>THERMOCOUPLE PROBES (see related datasheet)</b>				
Thermocouple K	°C, °F	from -200 to 1300°C	±1.1°C or ±0.4% of reading**	0.1 °C
Thermocouple J	°C, °F	from -100 to 750°C	±0.8°C or ±0.4% of reading**	0.1 °C
Thermocouple T	°C, °F	from -200 to 400°C	±0.5°C or ±0.4% of reading**	0.1 °C
Thermocouple S	°C, °F	from 0 to 1760 °C	±1°C or ±0.4% of reading**	0.5 °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.  
\*\*the accuracy is expressed either by a deviation in °C, or by a percentage of the value concerned. Only the bigger value is considered.

## Working principle

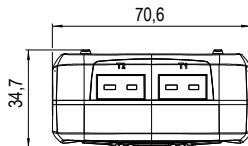
According to the Seebeck effect, when two wires composed of different metals are joined at both ends, an electric circuit is formed. The voltage increases with temperature.

I.E : Thermocouple K

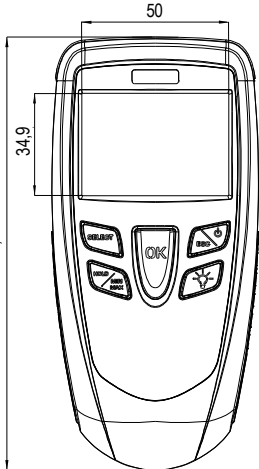


## Dimensions

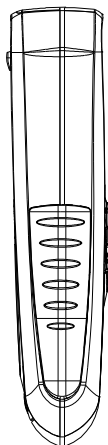
• Top view



• Front view



• Side view



## Supplied with ...

● Included ○ Optional

DESCRIPTION	TK 100	TK 102
Thermocouple probes	○	○
Protective cover IP67	○	○
Calibration certificate*	●	●
Transport case	●	●

\*except class 100S




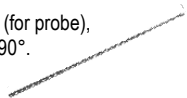



Large choice of temperature probes (See related datasheet) :

- ambient
- contact
- penetration
- food industry penetration
- general use
- Etc...



## Accessories (See related datasheet)

<b>CE 100</b> Protective cover with magnet and holding system. 	<b>CEP 100</b> Protective cover against water spray. 
<b>GST</b> Silicone heat-conductive grease for temperature probes. 	<b>RTS</b> Telescopic extension (for probe), 1m long and bent at 90°. 
<b>BN (See related data sheet)</b> Black ball Ø 150mm with junction for temperature probe Ø 4,5mm. Further dimensions available. 	

## Warranty period

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

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