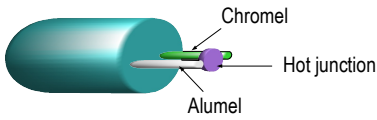


Working principle

TK 150

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



TN 150 – TN 151

Thermometer : NTC probe

Negative temperature coefficient probe are thermistance with a resistance that decreases with temperature according to the equation below :

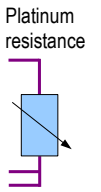
$$R_{(T)} = R_{(T_0)} e^{\left(\frac{\alpha}{100} \times (T_0 + 273.15)^2 \times \left(\frac{1}{T + 273.5} - \frac{1}{T_0 + 273.5} \right) \right)}$$

RT= resistance sensor value at temperature T
 R(T₀)= resistance sensor value at reference temperature T₀. T and T₀ in °C
 α et T₀ are sensor specific constants

TR 150 – TR151

Thermometer : Pt1000 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 ≈ 1000 Ω
 For 100°C ≈ 1385 Ω.



Supplied with ...

● Supplied with ○ Optional

DESCRIPTION	TK 150	TN 150	TN 151	TR 150	TR 151
Thermocouple probe	○				
NTC temperature probe		○			
Pt1000 food industry penetration probe			●		
Food industry penetration probe					●
Choice of Pt 1000 temperature probe				○	
Food industry protective cover IP67	●	●	●	●	●
Calibration certificate*	●	●	●	●	●
Transport case	●	●	●	●	●

*except class 150S





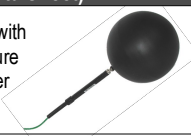
Large choice of temperature probes (See related data sheet) :

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

CEP 150



Accessories (See related data sheet)

CE 100	GST
Protective cover with magnet and holding system 	Silicone heat-conductive grease for temperature probes 
BN (See related data sheet) 	
Black ball Ø 150mm with junction for temperature probe Ø 4,5mm. Other on request.	



Warranty period

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

