

User Manual

(Version V1.2)

NTC Temperature probes



General Characters

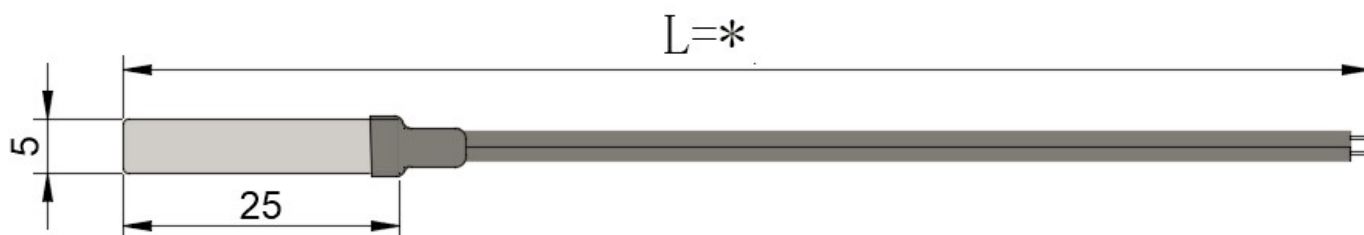
CORESTAR temperature probes are devices that, when connected to the control, provide the value of the heat, which is converted into temperature by the electronic control. They are used in applications in the HVAC/R market and they are a complete range of products to meet the different needs of various installations; they are made of materials that guarantee a constant quality.

The range includes various models to be used according to the performance of the system and to the application fields. The probes differ for the type of sensor (NTC, Pt1000), type of cap, degree of protection, length of cables, field of work and mechanical dimensions.

Specifications

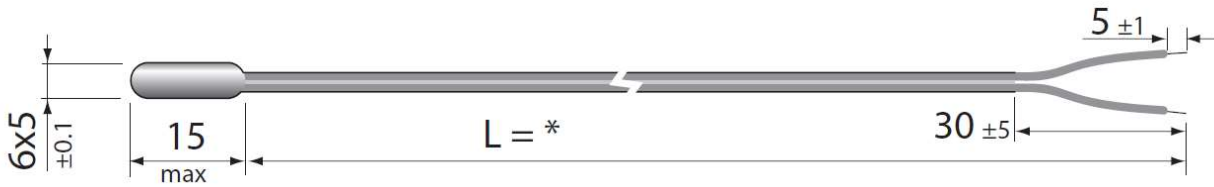
1. Models NTC (ESR10-N-xxM)

Storage conditions	-50 ~ 105 °C
Operating range	-50 ~ 105 °C
Connections	Stripped ends, dimensions: 5±1 mm
Sensor	NTC, 10 kΩ ±1% @25°C, Beta 3435
Cable	Black two-wire flat cable, with tinned copper wire size 0.3 mm ²
Sensitive element protection	IP67
Sensitive element housing	AISI 316 Steel diameter 5 mm, L=25 mm
Resistance to heat and fire	Flame retardant
Strengthen protection	Heat shrinkable sleeve
Length	Standard 3m, customizable



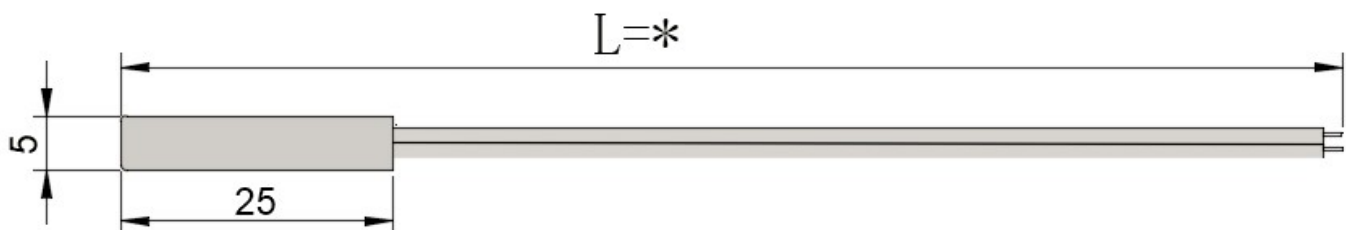
2. Model NTC(ESR10-P-xxM)

Storage conditions	-50 ~ 105 °C
Operating range	-50 ~ 105 °C
Connections	Stripped ends, dimensions: 5±1 mm
Sensor	NTC, 10 kΩ ±1% @25°C, Beta 3435
Precision	±0.3°C a 25°C, ±1°C -50T80°C, ±1.5°C 80T105°C
Cable	Black two-wire flat cable, with tinned copper wire size 0.3 mm ²
Sensitive element protection	IP67
Sensitive element housing	Polyolefin
Resistance to heat and fire	Flame retardant
Length	Standard 3m, customizable



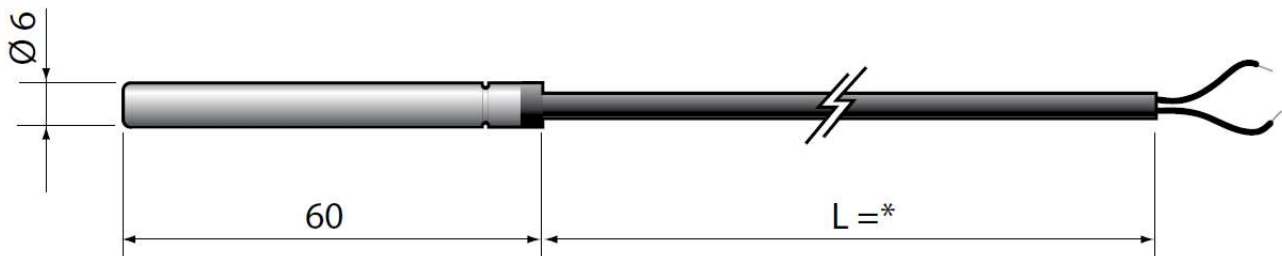
3. Model NTC(ESR11-H-xxM)

Storage conditions	-30 ~ 150 °C
Operating range	-30 ~ 150 °C
Connections	Stripped ends, dimensions: 5±1 mm
Sensor	NTC, 50 kΩ ±1% @25°C, Beta 3977
Cable	White Teflon two-wire flat cable, with tinned copper wire size 0.3 mm ²
Sensitive element protection	IP67
Sensitive element housing	AISI 316 Steel diameter 5 mm, L=25 mm
Resistance to heat and fire	Flame retardant
Strengthen protection	Heat shrinkable sleeve
Length	Standard 3m, customizable



4. Model PT1000 (ESRPT-1K-xxM)

Storage conditions	-100 ~ 150 °C
Operating range	-100 ~ 150 °C
Connections	Stripped ends, dimensions: 5±1 mm
Sensor	PT1000, Class B
Cable	Black 2-core tinned copper cable , black sheath diameter 3.0 ± 0.1 mm
Sensitive element protection	IP67
Sensitive element housing	AISI 316 Steel diameter 6 mm, L=60 mm
Resistance to heat and fire	Flame retardant
Length	Standard 3m, customizable



5. Model NTC with fastening clip (ESR10-F-xxM)

Storage conditions	-50 ~ 105 °C
Operating range	-50 ~ 105 °C
Connections	Stripped ends, dimensions: 5±1 mm
Sensor	NTC, 10 kΩ ±1% @25°C, Beta 3435
Precision	±0.3°C a 25°C, ±1°C -50T80°C, ±1.5°C 80T105°C
Cable	Black two-wire flat cable, with tinned copper wire size 0.3 mm ²
Sensitive element protection	IP67
Sensitive element housing	Thermoplastic rubber contact with clip
Resistance to heat and fire	Flame retardant
Length	Standard 3m, customizable

