

CJ Series

Jacketed thermocouple with extension cable

Ref : 2126

Rev : B



DESCRIPTION

This foldable and robust thermocouple model is ideal for temperature measurement in solid, liquid, or gaseous environments, up to 600°C for PT100/1000 and up to 1200°C for thermocouples.

Both thermocouple wires are insulated in compacted magnesia in an Inconel 600 sheath (or stainless steel 316L for the type T thermocouple or PT100/1000).

It comes with an extension cable.

MESUREX is a sensor manufacturer. We can adapt most sensors to your needs. Please [contact us](#).

K Green

J Black

T Brown

N Pink

E Purple

R/S Orange

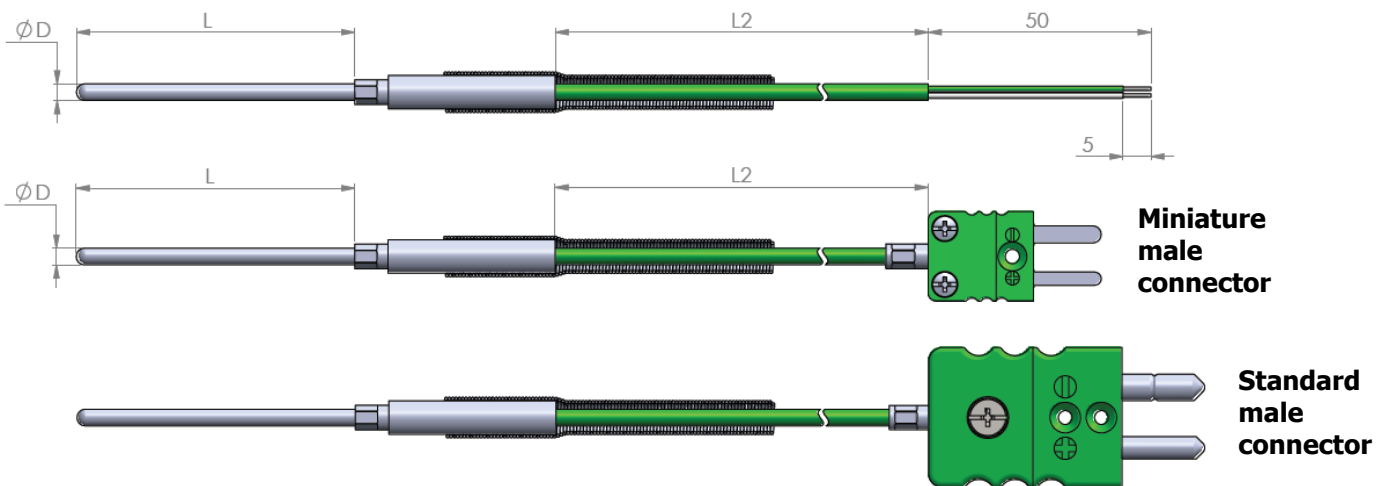
B Grey

TECHNICAL CHARACTERISTICS

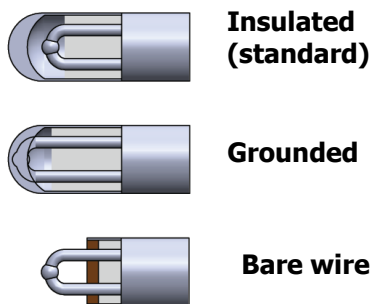
PARAMETERS	SECURITIES
Type	K, J, T, E, N, S or PT100, PT1000
Temperature range	-200°C to 1200°C depending on the diameter of the sheath and the type of thermocouple -196°C to 600°C for PT100/PT1000
Nature of the sheath	Inconel 600 (Stainless steel 316L for type T and PT100/1000 – other on request)
Nature of the extension	Shielded Teflon (other on request)
Precision	<u>Thermocouple</u> : Class 1 according to NF EN 60584-1 norm (Class 2 or 3 depending on temperature) (Standard or Special according to ASTM E230/E230M norm, on demand) <u>PT100/1000</u> : Class A, B, 1/5DIN, 1/10DIN according to NF EN 60751 norm
Diameter	0,5 / 1 / 1,5 / 2 / 3 / 4,5 / 6 mm (minimum 1.5 mm for PT100/1000)
Sheath length	100 / 300 / 500 mm (other on request)
Extension length	2 m standard (other on request)
Connection	Bare wire as standard <u>Thermocouple</u> : Miniature ⁽¹⁾ , Ultra miniature ⁽¹⁾ , Standard ⁽¹⁾ connector <u>PT100/1000</u> : Miniature ⁽¹⁾ , Standard ⁽¹⁾ connector, M8, M12, DIN...

(1) We provide miniature, ultra-miniature or standard connectors, male/female with 2,3 or 4 pins

DIMENSIONS



HOT SPOT



Note: In the case of an apparent hot spot, the thermocouple must be used in a dry, non-conductive environment.

WIRING

EXTENSION THERMOCOUPLE COLOUR IEC584-3			
K		Green	+ Green
			- White
J		Black	+ Black
			- White
T		Brown	+ Brown
			- White
E		Purple	+ Purple
			- White
N		Pink	+ Pink
			- White
S		Orange	+ Orange
			- White

ORDER INFORMATION

CJ D X L L2 XXX

Jacketed diameter (D):
0,5 / 1 / 1,5 / 2 / 3 / 4,5 / 6 mm

Thermocouple type:
K / J / T / E / N / S

Jacket length (S): 100 / 300 / 500 mm (other on request)
< 1 meter: in mm
≥ 1 meter: in m (M)

Note: a minimum jacket length of 230 mm is necessary if calibration is requested (minimum 500 mm for temperatures above 700°C).

Special options
Unique alphanumeric code

Extension length (L2):
None : 2 meters (standard)
< 1 meter: in mm
≥ 1 meter: in m (M)

• Special options

OPTION	PARAMETERS	
Nature of the metal sheath	Inconel 600	Standard for type K, J, E, N and S
	Stainless steel 316L Stainless steel 310 Stainless steel 321 Pyrosil D Microbell	Standard for type T Type K or N only Type N only
Hot spot	Insulated (standard) Grounded Bare wire	
Nature of the extension	Shielded Teflon (standard)	Temperature: 250°C max
	Unshielded Teflon PVC (shielded or unshielded) Silicone (shielded or unshielded) Glass silk (shielded or unshielded)	Temperature: 250°C max Temperature: 105°C max Temperature: 300°C max Temperature: 480°C max
Connector Type	None (standard) Miniature male Miniature female Standard male Standard female Ultra-miniature male Female ultra-miniature Other connector	200°C max (standard) High temperature (350°C max) Ceramic (650°C max)
		Contact us
Precision	Class 1 according to NF EN 60584-1 norm (standard) Class 2 or Class 3 according to NF EN 60584-1 norm (depending on temperature) Standard or Special according to ASTM E230 /E230M norm (application AMS 2750E) Class A, B, 1/3DIN, 1/5DIN, 1/10DIN according to NF EN 60751 norm	

Example:

Thermocouple

CJ1.5K300MMK

- K type thermocouple
- Inconel 600 jacket
- Diameter 1.5 mm
- Length 300 mm
- Hot weld insulated from the ground
- Shielded Teflon extension
- Length 2 m
- Miniature male connector
- Class 1 according to NF EN 60584-1 norm
- Color code according to NF EN 60584-3 norm

PT100

CJ3P2003CU

- PT100
- Stainless steel 316L jacket
- Diameter 3 mm
- Length 200 mm
- Shielded Teflon extension
- Length 2 m
- Class A according to NF EN 60751 norm
- Connection 3 wires

CONTACT

MESUREX

13 Rue des Corroyés
78730 Saint Arnoult en Yvelines (France)

Tel : +33 (0) 1 30 41 23 62

Mail : mesurex@mesurex.fr

Web : www.mesurex.fr