

Ideal for measuring surface temperatures of objects

Features of NS series

Ideal for measuring surface temperatures of objects in various experiments and product tests! Thin-Film Surface thermocouple has some great characteristics.

- 1 More accurate and stable temperature measurement.
- 2 Stress-free and prompt thermal responsiveness.
3. A hot junction with a wide contact area
4. It is available for high temperature (300°C).
5. It is available for measuring temperature easily and quickly.

It is able to connect bare terminal, Twintor (connector of Ninomiya) and Y terminal to Surface thermocouple.

The hot junction is one terminal of a duplex insulated thermocouple wire which is an optimal length for use.

Therefore, there is no need to prepare another lead wire.

Product specifications

【 size of the thin-film part 】

STANDARD (NSP/NSV)
approx 20mm × 10mm
thickness = approx 0.15mm

MINIATURE (NSMP/NSMV)
approx 14mm × 10mm
thickness = approx 0.15mm

【 The lead wire 】

Strand diameter = 0.2mm
Standard overall diameter = approx 0.9mm
Lead wire length = specified length

TYPE of NS series

【K thermocouple】

Two types are available: The general type and the high-temperature resistant type.

Regarding the size of the thin-film part, two types are also available:

The standard type and the miniature type

【T thermocouple】

Only the general type is available.

Regarding the size of the thin-film part, only the miniature type is available.

【Upper temperature limit】

General type: Temperatures up to 200°C can be measured.

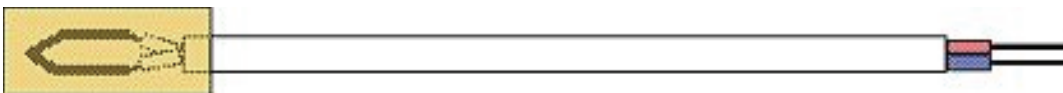
High-temperature resistant type: Temperatures up to 300°C can be measured since this type uses adhesive-free polyimide film as the insulation for the hot junction.

(Please note that the upper temperature limit of the lead wire is 260°C.)

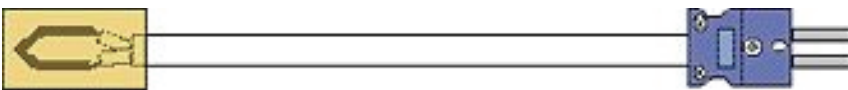
Minimal outgases are generated.

製品概略図例

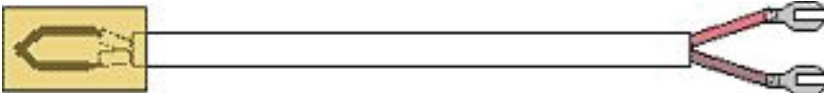
K thermocouple: General-type, standard size, bare terminal



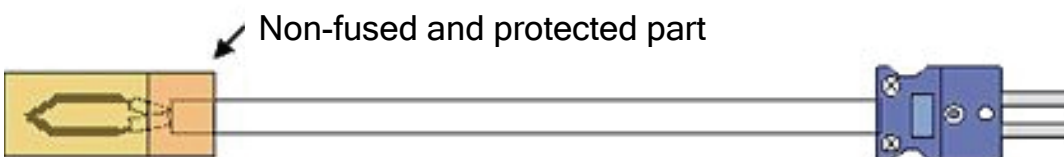
K thermocouple: General-type, miniature size, connector (xxxx)



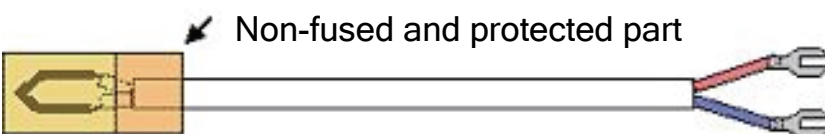
T thermocouple: General-type, miniature size, Y terminal



K thermocouple: High-temperature resistant type, standard size, connector



K thermocouple: High-temperature resistant type, miniature size, Y terminal



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