

# IEC Mineral Insulated Thermocouples with PFA Lead

Types 'K' or 'J' with 1 metre PFA Lead & Bare Tails – Stainless Steel Sheath



(Note: Illustration shows Type 'K')

- Mineral insulated Thermocouple to IEC 584
- Choice of Type 'K' with 310 stainless steel sheath or Type 'J' with 321 stainless steel sheath
- Highly flexible, sheath can be bent/formed to suit many applications and processes
- Insulated hot junction
- Plain pot seal (200°C)
- 1 metre 7/0.2mm PFA Teflon® insulated flat pair cable and tails (colour coded to IEC 584)
- Manufactured using materials to IEC 584 class 1 specification

## Specifications

|                          |   |
|--------------------------|---|
| Sensor type:             | Type 'K' (Nickel Chromium/Nickel Aluminium)<br>Type 'J' (Iron/Constantan)   |
| Construction:            | Flexible mineral insulated probe with stainless steel sheath, plain pot seal & 1 metre extension cable                                    |
| Manufactured:            | Tolerances of materials used in the manufacture conform to class 1 specification to relevant BS EN 60584 standards.                       |
| Element/hot junction:    | Single element, junction insulated from sheath (offers protection against spurious electrical signals)                                    |
| Termination:             | 1 metre 7/0.2mm PFA Teflon® insulated flat pair cable, colour coded in accordance with IEC 584  |
| Probe temperature range: | Type 'K'            -40°C to +1100°C >1.0mm diameter<br>-40°C to +750°C – 1.0mm diameter and below<br>Type 'J'            -40°C to +750°C |
| Pot seal rating:         | 200°C   |

**Type 'K' – 310 stainless steel sheath:**

Good corrosion & oxidation resistance to suit a wide range of processes, satisfactorily operates in sulphur bearing atmospheres

Typical applications include brick & cement kilns, glass industry, heat treatment & annealing furnaces, power stations, flues, heat exchangers etc.

| <b>T/C Type</b> | <b>Probe Dia. (mm)</b> | <b>Probe Length (mm)</b> | <b>Cable jacket</b> | <b>Tails: +pos/-neg</b> | <b>order code</b>  |
|-----------------|------------------------|--------------------------|---------------------|-------------------------|--------------------|
| K               | 1.0                    | 500                      | Green               | Green/White             | <b>XF-1057-FAR</b> |
| K               | 1.0                    | 1000                     | Green               | Green/White             | <b>XF-1055-FAR</b> |
| K               | 1.0                    | 2000                     | Green               | Green/White             | <b>XF-1058-FAR</b> |
| K               | 1.5                    | 500                      | Green               | Green/White             | <b>XF-1059-FAR</b> |
| K               | 1.5                    | 1000                     | Green               | Green/White             | <b>XF-1062-FAR</b> |
| K               | 1.5                    | 1500                     | Green               | Green/White             | <b>XF-1060-FAR</b> |
| K               | 3.0                    | 1000                     | Green               | Green/White             | <b>XF-1064-FAR</b> |
| K               | 4.5                    | 150                      | Green               | Green/White             | <b>XF-1065-FAR</b> |

**Type 'J' – 321 stainless steel sheath:**

Excellent corrosion resistance, retains good ductile properties to suit a wide range of industrial applications & processes

Typical applications include heat treatment & annealing furnaces, aluminium heat treatment, chemical reactors, plastic/rubber moulding industry, polythene manufacture, coal plants, paper mills, textile industry etc.

| <b>T/C Type</b> | <b>Probe Dia. (mm)</b> | <b>Probe Length (mm)</b> | <b>Cable jacket</b> | <b>Tails +pos/-neg</b> | <b>order code</b>  |
|-----------------|------------------------|--------------------------|---------------------|------------------------|--------------------|
| J               | 1.5                    | 150                      | Black               | Black/White            | <b>XF-1048-FAR</b> |
| J               | 1.5                    | 250                      | Black               | Black/White            | <b>XF-1049-FAR</b> |
| J               | 3.0                    | 150                      | Black               | Black/White            | <b>XF-1050-FAR</b> |
| J               | 3.0                    | 250                      | Black               | Black/White            | <b>XF-1051-FAR</b> |
| J               | 6.0                    | 150                      | Black               | Black/White            | <b>XF-1052-FAR</b> |
| J               | 6.0                    | 250                      | Black               | Black/White            | <b>XF-1053-FAR</b> |

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