



830# Series

Wedge Shaped (Knife Edge) Skin Thermocouples

- Almost accurate temperature measurements of :
Fired Heater tubes
Boiler Tubes
Reformer tubes
- Thick wall for longer usage life.
- Grounded hot junction in a "Wedge Shaped" tip for direct welding to tube surface.
- Certified for use in hazardous area.
- Expansion loop furnished.
- Hot end designed to wrap round the tube
- Many Thermocouple Types and sheath materials to choose from.
- Retaining Clamp furnished.
Hot end designed to wrap round the tube

| Code | No of Elements |
|------|----------------|
| 1 | Simplex |
| 2 | Duplex |

| Code | Elements |
|------|--------------------|
| J | Iron-Constantan |
| K | Chromel-Alumel |
| E | Chromel-Constantan |
| N | Nicrosil Nisil |

| Code | Sheath Dia | Nominal wire gauge | |
|------|------------|--------------------|-------|
| | | (S) | (D) |
| 12.7 | 12.7mm | 14AWG | 16AWG |
| 10.0 | 10.0mm | 16AWG | 18AWG |

| Code | Sheath Material |
|-------|-----------------|
| 446 | 446SS |
| 310 | 310SS |
| Inc 6 | Inconel 600 |
| Inc 8 | Incoloy 800 |

| Code | Head Type |
|------|--------------------|
| D | Weatherproof |
| F | Flameproof IIA/IIB |
| C | Flameproof IIC |
| JB | Junction Box |

| Code | Options |
|------|---------------------|
| 0 | None |
| 1 | Head in 304SS |
| 2 | Head in 316SS |
| 5 | Other Conduit entry |
| 6 | In Head Transmitter |
| 7 | Brass Cable Gland |
| 8 | SS Cable Gland |
| 10 | Special requirement |
| 31 | Spring loaded cover |
| 32 | UnGrounded junction |

| Code | Tube OD |
|------|---------|
| D | Define |

| Code | Overall Length |
|------|------------------|
| OL | Define OL=U+T+95 |

| Code | Expansion Loop |
|------|---------------------|
| Y | 2 times the dia 'D' |

| Code | Installation Type |
|------|--|
| 11 | Perpendicular to tube axis with left loop and wrap around angle A=90° |
| 12 | Perpendicular to tube axis with right loop and wrap around angle A=90° |

| Code | No of Entries |
|------|---------------|
| 1 | One entry |
| 2 | Two entries |

ORDERING EXAMPLE
830# SERIES 1-K-12.7-446-D-1-12-Y-OL-D-Op0