TUBE SKIN THERMOCOUPLES
with lead wire

Specifications:

Series: TUS-20.000
Probe type: mineral insulated (MgO) thermocouple, welded to a weld pad
Thermocouple type: Chromel-alumel, type K
Standard limits of error: ANSI MC 96.1 / IEC 584
Probe diameter: 6.4 mm (1/4”)
Insulation material: densely packed MgO, 99.6% purity
Sheath material: SS 310 or Hastelloy X
Hot junction: insulated
Min. insulation resistance: 10 Mohm at ambient temperature with 200 V DC
Probe length ‘A’: to be specified; replace box ‘A’ in ordering code
Lead wire: glass fibre insulated thermocouple wire with SS braiding (type G/GS); positive wire identified with polarity mark
Length lead wire: 1000 mm
Upper temperature limit lead wire: 500 °C
Max. temperature transition: 200 °C
Weld pad dimensions: 25 x 25 x 3.2 mm
Mounting method: longitudinal or right angle mounted on furnace tube (see drawing overleaf)
Furnace tube o.d.: to be specified; replace box ‘D’ in ordering code (minimum 50 mm)
Weld pad material: same as sheath material
Weld clamps: one clamp will be supplied with each assembly, material same as sheath material; extra clamps to be ordered separately; see below

Ordering code:

<table>
<thead>
<tr>
<th>Sheath material</th>
<th>Longitudinal mounted</th>
<th>Right angle mounted</th>
<th>Weld clamps</th>
</tr>
</thead>
<tbody>
<tr>
<td>SS 310</td>
<td>TUS-20644-K □ □ mm</td>
<td>TUS-21644-K □ □ mm</td>
<td>TUS-90644-K</td>
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<tr>
<td>Hastelloy X</td>
<td>TUS-20647-K □ □ mm</td>
<td>TUS-21647-K □ □ mm</td>
<td>TUS-90647-K</td>
</tr>
</tbody>
</table>

□ = probe length ‘A’ and furnace tube o.d. ‘D’ in mm (to be specified)