EXPLOSION PROOF ATEX
Industrial temperature sensors Ex d

Specifications:

Series: XPS-30.000

**CONNECTION HEAD**
- Type: weatherproof with screw on cover
- Material: cast-aluminium (SS up on request)
- Max. temperature: 80 °C
- Conduit entry thread: 3/4" NPT standard; if 1/2" NPT, BSP or metric thread, please specify

**EXTENSION**
- Type: adjustable nipple with locknut
- Material: Stainless steel
- Length: approx. 175 mm; other lengths optional
- Process connection: 1/2" NPT, male thread

**INSERT**
- Type: approved thermocouple or resistance insert (see A103r)
- Insertion length below nipple: to be specified; replace box behind ordering code
- Insert length: A + 221 mm

**THERMOWELL**
- Type: any type of thermowell; to be specified separately

**APPROVAL**
- Classification: II 2G Ex d IIC T6…T1 Gb
- Certificate number: KEMA 03ATEX 2243X
- Protection category: 'd' flame proof enclosure
- Explosion group: IIC
- Temperature class: T6…T1
- Applicable standards: EN-60079-0: 2012
- EN-60079-1:2007

Also available in IEC, CSA/us, TR CU and KTL

The cable gland shall be a certified model and is not part of the approval

**Ordering code:**

<table>
<thead>
<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td>J 4,8 mm</td>
<td>XPS-35103-</td>
<td>XPS-36103-</td>
</tr>
<tr>
<td>K 4,8 mm</td>
<td>XPS-35103-</td>
<td>XPS-36103-</td>
</tr>
<tr>
<td>T 4,8 mm</td>
<td>XPS-35103-</td>
<td>XPS-36103-</td>
</tr>
<tr>
<td>N 4,8 mm</td>
<td>XPS-35103-</td>
<td>XPS-36103-</td>
</tr>
<tr>
<td>Pt 100 6,0 mm</td>
<td>XPS-35103-</td>
<td>XPS-36103-</td>
</tr>
</tbody>
</table>

□ = immersion length 'A' in mm (to be specified)

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www.te-instrumentation.com

A/103 ATEX
Rev.03 03/17
MI-CABLE TC/PT100 INSERTS
for Thermo Electric Ex d approved sensors ATEX

Specifications:

Probe type: mineral insulated
Outside diameter: 4.8 mm (3/16")
Insulation material: densely packed MgO
Min. insulation resistance: 10 Mohm at ambient temperature with, 200 V DC
Termination: ceramic DIN terminal block with clamp, type terminals
Max. spring loading: 10 mm
Probe length 'A': to be specified

THERMOCOUPLTE

Type: iron-constantan, type J
chromel-alumel, type K
copper-constantan, type T
nicrosil-nisil, type N

Standard limits of error: ANSI MC 96.1 / IEC 60584
Sheath material: SS 316 for type J and T (Wstnr.1.4401);
Inconel 600 for type K,N (Wstnr.2.4816)
Hot junction: insulated, individually insulated for duplex
Probe diameter: 4.8 mm or 6.0mm please specify

RESISTANCE THERMOMETER

Element type: Pt 100, single or duplex
Resistance values and tolerances: IEC 60751 class B
Max. voltage: 5 V (10 mA)
Wiring system: 3 wires from element
Probe diameter: 6 mm

These items fit standard Ex d temperature sensors series XPS-30.000 see page A103

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<th>Duplex</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>'A'</td>
<td></td>
</tr>
<tr>
<td>J</td>
<td>4.8 mm</td>
<td>J</td>
</tr>
<tr>
<td>K</td>
<td>4.8 mm</td>
<td>K</td>
</tr>
<tr>
<td>T</td>
<td>4.8 mm</td>
<td>T</td>
</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
<td>N</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6.0 mm</td>
<td>Pt100</td>
</tr>
</tbody>
</table>

□ = probe length 'A' in mm (to be specified)