EXPLOSION PROOF EXI TR CU
Industrial temperature sensors Ex ia or Ex ib

Specifications:

Series: XPS-20.000

**CONNECTION HEAD**
Type: weatherproof with screw on cover
Material: cast-aluminium or cast-iron
Conduit entry thread: 3/4" NPT standard; if 1/2" NPT, BSP, or metric thread, please specify

**EXTENSION**
Type: nipple-union-nipple
Material: Stainless steel
Length: approx. 160 mm; other lengths optional
Process connection: 1/2" NPT, male thread

**INSERT**
Type: approved thermocouple or resistance insert A/102r
Insertion length below nipple: to be specified; replace box behind ordering code
Insert length: A + 216 mm

**THERMOWELL**
Type: any type of thermowell to be specified

**APPROVAL**
Classification: XPS2: 0ExiaICT1…T6 or 1ExibICT1…T6
Certificate number: TC RU C-NL.r06.8.00542
Protection category: 'ia' intrinsic safety, category a
Explosion group: IIIC
Temperature class: T6-T1
Also available in ATEX, IEC, CSA/us 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>CAST-ALUMINIUM HEAD</th>
<th>CAST-IRON HEAD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Single</td>
<td>Duplex</td>
</tr>
<tr>
<td>J</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>K</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>T</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>N</td>
<td>4,8 mm</td>
<td>XPS-25101-</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6,0 mm</td>
<td>XPS-25101- Pt100-□ mm</td>
</tr>
</tbody>
</table>

□ = immersion length ‘A’ in mm (to be specified)
MI-CABLE TC / Pt100 INSERTS
for Thermo Electric Ex I approved sensors TR CU

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. springloading: 50 mm
- Probe length 'A': to be specified

THERMOCOUPLE

- Type:
  - iron-constantan, type J
  - chromel-alumel, type K
  - copper-constantan, type T
  - nicr-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 ia temperature sensors series XPS-20.000

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<tr>
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<th></th>
<th>Duplex</th>
</tr>
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<tbody>
<tr>
<td>J</td>
<td>4.8 mm</td>
<td>TEE-50482- J 'A'</td>
<td>TEE-52484- J 'A'</td>
</tr>
<tr>
<td>K</td>
<td>4.8 mm</td>
<td>TEE-50482- K 'A'</td>
<td>TEE-52484- K 'A'</td>
</tr>
<tr>
<td>T</td>
<td>4.8 mm</td>
<td>TEE-50482- T 'A'</td>
<td>TEE-52484- T 'A'</td>
</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
<td>TEE-50482- N 'A'</td>
<td>TEE-52484- N 'A'</td>
</tr>
<tr>
<td>Pt100</td>
<td>6.0 mm</td>
<td>RTD-50603- Pt100</td>
<td>RTD-52606- Pt100</td>
</tr>
</tbody>
</table>

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