EXPLOSION PROOF TR CU
Industrial temperature sensors Exe

Specifications:

Series: XPS-10.000

**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
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: XPS1:2ExeIIIT1…T6
Certificate number: TC RU C-NL:R606.8.00542
Protection category: 'e' increased safety
Explosion group: II
Temperature class: T6-T1
Applicable standards: TR TU 012/2011, GOST 30852.02-2002
Also available ATEX, CSA/us, IEC and KTL

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

Inserts only see page A/101r
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### 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-15101- J</td>
</tr>
<tr>
<td>K</td>
<td>4.8 mm</td>
<td>XPS-15101- K</td>
</tr>
<tr>
<td>T</td>
<td>4.8 mm</td>
<td>XPS-15101- T</td>
</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
<td>XPS-15101- N</td>
</tr>
<tr>
<td>Pt 100</td>
<td>6.0 mm</td>
<td>XPS-15101- Pt100</td>
</tr>
</tbody>
</table>

$\Box = \text{immersion length 'A' in mm (to be specified)}$
MI-CABLE TC / Pt100 INSERTS
for Thermo Electric Ex e 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. spring loading: 50 mm
Probe length 'A': to be specified

THERMOCOUPLE
Type: iron-constantan, type J
cromel-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);
Inconel600 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 e temperature sensors series XPS-10.000

<table>
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<tr>
<th>Probe type</th>
<th>Single</th>
<th>Duplex</th>
</tr>
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<tbody>
<tr>
<td>J</td>
<td>4.8 mm</td>
<td>TEE-50482- J -□ mm</td>
</tr>
<tr>
<td>K</td>
<td>4.8 mm</td>
<td>TEE-50482- K -□ mm</td>
</tr>
<tr>
<td>T</td>
<td>4.8 mm</td>
<td>TEE-50482- T -□ mm</td>
</tr>
<tr>
<td>N</td>
<td>4.8 mm</td>
<td>TEE-50482- N -□ mm</td>
</tr>
<tr>
<td>Pt100</td>
<td>6.0 mm</td>
<td>RTD-50603- Pt100 -□ mm</td>
</tr>
</tbody>
</table>

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