Hazardous (Classified) Location
Class I / Division 1 / Groups ABEFG
Class II / Division 1 / Groups EFG
Class III

Nonhazardous Locations

Associated non-incendive power supply unit with max. electrical spec below the characteristic values for Entity or NIFW of the assembled:

<table>
<thead>
<tr>
<th>Transmitter</th>
<th>Ui/Vmax</th>
<th>Ci</th>
<th>Li</th>
</tr>
</thead>
<tbody>
<tr>
<td>TMT71, TMT72</td>
<td>30 V</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>TMT142B</td>
<td>30 V</td>
<td>5 nF</td>
<td>0</td>
</tr>
</tbody>
</table>

Installation Notes:

- CSA approved apparatus must be installed in accordance with manufacturer’s instructions.
- Install per Canadian Electrical Code or National Electrical Code (NEPA 70).
- Use supply wires suitable for 5°C above surroundings.
- Keep tight while circuits are alive.
- Gardner bien fermé tant que les circuits sont sous tension
- Inserts TU111 (RTDs) and TU121 (TC) with Additional Option Code “2” (XP Spare Part) need to be used to ensure approved classification.

EXPLOSION PROOF

Class I / Div. 1 / Groups ABEFG
Class II / Div. 1 / Groups EFG

DUST IGNITION PROOF

Class I / Div. 1 / Groups ABEFG

NONINCENDIVE

Class I / Div. 2 / Groups ABEFG

Intrinsic safety barrier not required.

Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

Avertissement : Risque d’explosion - Ne pas débrancher tant que le circuit est sous tension, à moins qu’il s’agisse d’un emplacement non dangereux.

Avertissement : La substitution de composants peut rendre le matériel inacceptable pour les emplacements de Class I, Division 2.

Nonincendive field wiring installation:

The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus.

For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

Nonincendive field wiring installation:

The Nonincendive Field Wiring Circuit Concept allows interconnection of Nonincendive Field Wiring Apparatus with Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus.

For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

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For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus.

For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

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For transmitter’s or sensor’s Nonincendive Field Wiring parameters see table’s parameters.

For these current controlled circuits, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the Associated Nonincendive Field Wiring Apparatus or Associated Intrinsically Safe Apparatus.
It shall be verified, taking into account the worst case process and ambient temperatures, that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly.

### Permitted ambient temperatures

**Class I, Division 1, Groups A, B, C and D:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Assembled head transmitter</th>
<th>Temperature class/code</th>
<th>Ambient temperature housing</th>
</tr>
</thead>
<tbody>
<tr>
<td>T13, T14, T15, T53, T54, T55</td>
<td>TMT7x, TMT31, TMT86</td>
<td>T6/T85°C, T5/T100°C, T4/T135°C</td>
<td>-40°C ≤ Ta ≤ +65°C, -40°C ≤ Ta ≤ +80°C, -40°C ≤ Ta ≤ +85°C</td>
</tr>
<tr>
<td></td>
<td>TMT142B*</td>
<td>T6/T85°C, T5/T100°C, T4/T135°C</td>
<td>-40°C ≤ Ta ≤ +55°C, -40°C ≤ Ta ≤ +70°C, -40°C ≤ Ta ≤ +85°C</td>
</tr>
</tbody>
</table>

*The maximum ambient temperature is limited to +70 °C for the display models.

**Class II, Div. 1 Groups E, F & G; Class III:**

**Permitted process temperatures**

<table>
<thead>
<tr>
<th>Type</th>
<th>Insert diameter</th>
<th>Temperature class/Maximum surface</th>
<th>Process temperature range for assembled</th>
</tr>
</thead>
<tbody>
<tr>
<td>T13, T14, T15, T53, T54, T55</td>
<td>3mm, 6mm dual</td>
<td>T6 / T85°C, T5 / T100°C, T4 / T135°C</td>
<td>-50°C ≤ Tp ≤ +66°C, -50°C ≤ Tp ≤ +81°C, -50°C ≤ Tp ≤ +116°C</td>
</tr>
<tr>
<td></td>
<td>6mm</td>
<td>T3 / T200°C, T2 / T300°C, T1 / T450°C</td>
<td>-50°C ≤ Tp ≤ +426°C, -50°C ≤ Tp ≤ +276°C, -50°C ≤ Tp ≤ +181°C</td>
</tr>
</tbody>
</table>

*The maximum ambient temperature is limited to +70 °C for the display models.*

**Class I, Division 2, Groups A, B, C and D:**

<table>
<thead>
<tr>
<th>Type</th>
<th>Assembled transmitter</th>
<th>Temperature class</th>
<th>Ambient temperature range housing Ta</th>
</tr>
</thead>
<tbody>
<tr>
<td>T13, T14, T15, T53, T54, T55</td>
<td>TMT7x with display</td>
<td>T6, T5, T4</td>
<td>-50°C ≤ Ta ≤ +55°C, -40°C ≤ Ta ≤ +70°C, -50°C ≤ Ta ≤ +85°C</td>
</tr>
<tr>
<td></td>
<td>TMT142B*</td>
<td>T6, T5, T4</td>
<td>-40°C ≤ Ta ≤ +55°C, -40°C ≤ Ta ≤ +70°C, -40°C ≤ Ta ≤ +85°C</td>
</tr>
<tr>
<td></td>
<td>TMT31</td>
<td>T6, T5, T4</td>
<td>-40°C ≤ Ta ≤ +38°C, -40°C ≤ Ta ≤ +53°C, -40°C ≤ Ta ≤ +85°C</td>
</tr>
</tbody>
</table>

*The maximum ambient temperature is limited to +70 °C for the display models.*