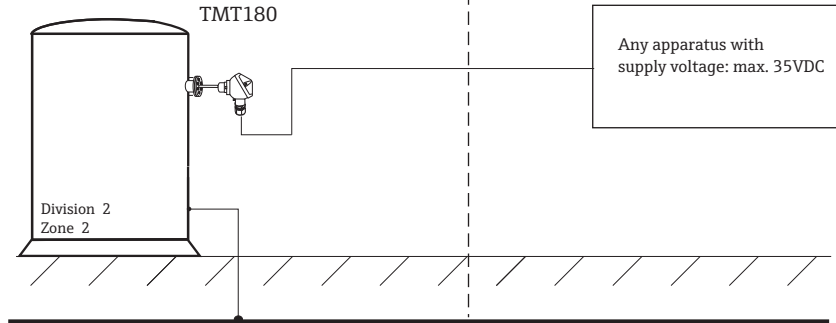


Hazardous (Classified) Location
NI / Class I / Division 2 / Groups ABCD

Nonhazardous Locations



Temperature range

- T4 -40°C ... +85°C
- T5 -40°C ... +65°C
- T6 -40°C ... +50°C

Installation Notes TMT180



- The head transmitter must be installed in accordance with this control drawing and Article 504 and 505 of NEC and Section 18 of CEC as applicable.
 - The spacing between intrinsically safe and non intrinsically safe circuits is at least 50 mm.
 - Use supply wires suitable for 5°C above
 - The configuration of the transmitter TMT180 is only permitted in non-hazardous locations using the TMT181A.
 - To prevent ignition of explosive atmospheres, disconnect power before servicing.
 - The device must be installed in a suitable enclosure.
- Warning: Substitution of components may impair suitability for Class I, Division 2.

NONINCENDIVE

NI Class I / Div. 2 / Groups ABCD

- Depending on location install per National Electrical Code (NEC) using wiring methods described in article 500 through article 510 and Section 18 of CEC.
- The transmitter TMT180 and RTD Sensor is to be installed in Class I, Division 2 location.
- Intrinsic safety barrier not required. $V_{max} \leq 30 \text{ V DC}$.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.
- 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 or Associated Apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when $V_{oc} \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$. Transmitter Nonincendive Field Wiring parameters are as follows:
 U_i or $V_{max} \leq 30 \text{ V DC}$ $C_i \leq 144 \text{ nF}$ $L_i \leq 0$
For these current controlled circuits, the parameter I_{max} is not required and need not to be aligned with parameter I_{sc} and I_t of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

Functional ratings

These ratings do not supersede Hazardous Location values
 $U_{nom} \leq 35 \text{ DC}$ $I_{nom} \leq 4 \text{ to } 20 \text{ mA}$

	Approved Pfanzelt	Date (yyyy-mm-dd) 2005-08-25	Drawing No. 14 13 00 112	Dwg.rev. -	Revision no. -	Revision date (yyyy-mm-dd) -	Name -	Material 71540255 XA02323T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2005-08-29	Unit iTEMP TMT180	Scale 1:1	Title CONTROL DRAWING CSA Nonincendive		Series		
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4	Objekt version	Sheet 1 of 1	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany		