

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



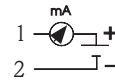
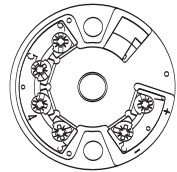
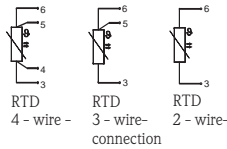
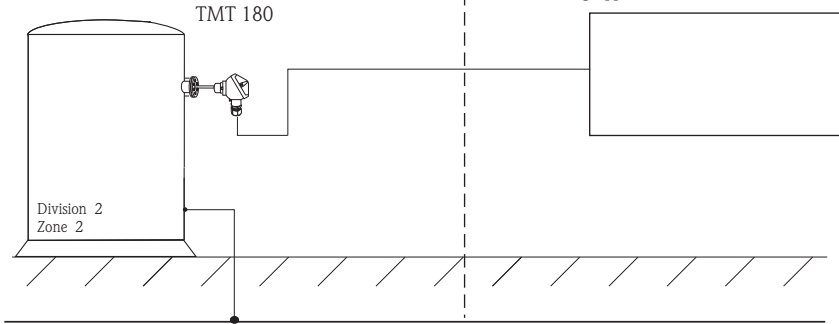
Nonhazardous Locations



### Installation Notes TMT 180

- FM Approved Apparatus must be installed in accordance with manufacturer's instructions.
- 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 TMT 180 is only permitted in non hazardous locations using the TMT 181A.
- To prevent ignition of explosive atmospheres, disconnect power before servicing.
- The device must be installed in a suitable enclosure.
- The transmitter TMT 180 and RTD Sensor is to be installed in Class I, Division 2 location.  
 Warning: Substitution of components may impair suitability for Class I, Division 2.

Any FM Approved Associated Nonincendive Field Wiring Apparatus



### 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.  
 Intrinsic safety barrier not required.  $V_{max} \leq 30$  V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- 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  $V_{max} \leq 30$  V DC     $C_i \leq 144$  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.

### Temperature range

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

### Functional ratings

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

	Approved Pfanzelt	Date (yyyy-mm-dd) 2006-04-20	Drawing No. 14 13 00 111	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material 71032394 ZD 058R/09/en/07.06	<b>Endress+Hauser</b>
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2006-04-18	Unit iTEMP TMT 180	Scale 1:1	<b>CONTROL DRAWING FM Nonincendive</b>			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	