

Hazardous (Classified) Location
Class I / Division 1, 2 / Groups ABCD
Class II / Division 1, 2 / Groups EFG
Class III

Nonhazardous Locations

Remote mount sensor configuration



CSA explosion-proof approved temperature sensor assembly

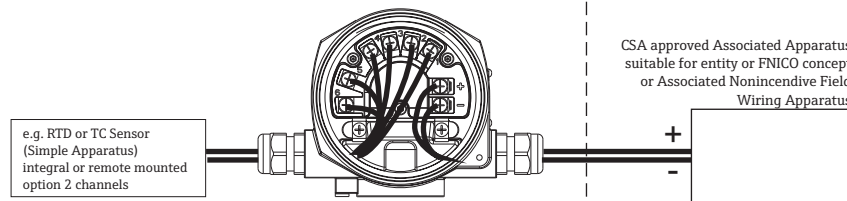
Direct mount sensor configuration:



CSA explosion-proof approved temperature sensor assembly

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

Nonhazardous Locations



CSA approved Associated Apparatus suitable for entity or FNICO concept or Associated Nonincendive Field Wiring Apparatus

e.g. RTD or TC Sensor (Simple Apparatus) integral or remote mounted option 2 channels

NONINCENDIVE, FIELD WIRING

Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 1...6)

U_o or V_{oc} or $V_t = 8.6 V$ I_o or $I_{sc} = 26.9 mA$ $P_o = 57.6 mW$
 Group A, B resp. IIC C_o or $C_a = 6.2 \mu F$ L_o or $L_a = 48 mH$
 Group C, D resp. IIB, IIA C_o or $C_a = 55 \mu F$ L_o or $L_a = 180 mH$

Installation Notes TMT162

EXPLOSION PROOF DUST IGNITION PROOF

Class I / Div. 1 / Groups ABCD
Class II, III / Div. 1 / Groups EFG



- CSA certified apparatus must be installed in accordance with manufacturer's instructions.
- Installation must be in accordance with Canadian Electrical Code.
- All Conduits must be assembled with a minimum of five full threads engagement.
- Temperature Sensor assembly must be CSA approved for appropriate area classification.
- Use supply wires suitable for 5°C above surroundings.
- Stating that only simple apparatus should be terminated to the sensor connection.
- Simple apparatus are components as defined by the CEC (1.2V, 0.1A, 0.25mW or 20µJ)
- Seal all conduits within 18 inches of enclosure.
- In Class II use a dust tight seal.
- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Keep tight when circuits alive.
- Supply circuit (Terminals + and -)
 - $U \leq 35 V DC$
 - $P = 3 W$
- Warning: Substitution of components may impair suitability for Class I, Division 2.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous.

NONINCENDIVE

Class I / Div. 2 / Groups ABCD

- Intrinsic safety barrier is not required. $V_{max} \leq 35 V DC$.
- 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 $V_{max} \leq 35 V DC$ $C_i \leq 5 nF$ $L_i \leq 10 \mu H$
 I_i or $I_{max} =$ see following note below
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.
- The transmitter is suitable to be installed according to FNICO concept.

NOTE

When the product is installed as a FNICO installation use drawing 14 12 00 212.

Temperature range

T4 -40°C ... +85°C T5 -40°C ... +70°C T6 -40°C ... +55°C

	Approved Pfanzelt	Date (yyyy-mm-dd) 2006-05-05	Drawing No. 14 12 00 214	Dwg.rev. -	Revision no. -	Revision date (yyyy-mm-dd) -	Name -	Material 71540253 XA02325T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed Meroth	Date (yyyy-mm-dd) 2005-07-14	Unit iTEMP TMT162 FF/PA	Scale 1:1	Title CONTROL DRAWING CSA			Series	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4	XP, NI			Objekt version Sheet 1 of 1	Endress + Hauser GmbH+Co. KG Nesselwang / Germany