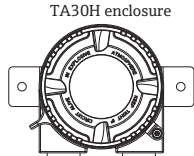


Hazardous (Classified) Location
 Class I / Division 1, 2 / Groups ABCD
 Class II / Division 1 / Groups EFG
 Class III

Nonhazardous Locations

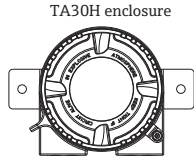


e.g. Remote mount sensor configuration



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

Nonhazardous Locations



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

CSA Approved Associated Apparatus
 or Associated Nonincendive Field
 Wiring Apparatus

Temperature range

without display, TID10
 T4 -40°C ... +85°C
 T5 -40°C ... +80°C
 T6 -40°C ... +70°C

with display, TID10
 T4 -40°C ... +85°C
 T5 -40°C ... +80°C
 T6 -40°C ... +70°C

NONINCENDIVE, FIELD WIRING Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 3...7)

Uo or Voc or Vt = 7.2 V Io or Isc = 25.9 mA Po = 46.7 mW
 Group A, B resp. IIC Co or Ca = 13.5 µF Lo or La = 59 mH
 Group C, D resp. IIB Co or Ca = 240 µF Lo or La = 238 mH
 Group C, D resp. IIA Co or Ca = 1000 µF Lo or La = 477 mH

Installation Notes TMT84 and TMT85

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code.
- Temperature Sensor assembly must be CSA approved for appropriate area classification.
- Use supply wires suitable for 5°C above surroundings.
- Keep tight when circuits alive.
- Warning: Substitution of components may impair intrinsic safety or suitability for Class I, Division 2.



**EXPLOSION PROOF
 DUST IGNITION PROOF**

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

- All conduits must be assembled with a minimum of five full threads engagement.
- Seal all conduits within 18 inches of enclosure.
- In Class II use a dust tight seal.
- 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 not required. Vmax ≤ 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

Voc ≤ Vmax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.

Transmitter Nonincendive Field Wiring parameters are as follows:

Ui or Vmax ≤ 35 V DC Ci ≤ 5 nF Li ≤ 10 µF

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 Apparatus.

- Warning: Explosion Hazard- Do not disconnect equipment unless power has been switched off or the area is known to be non-hazardous
- The transmitter is suitable to be installed according the FNICO concept.

	Approved Pfanzelt	Date (yyyy-mm-dd) 2011-06-08	Drawing No. 34 02 00 114	Dwg.rev. -	Revision no. -	Revision date (yyyy-mm-dd) -	Name -	Material 71540292 XA02286T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2011-06-06	Unit ITEMP TMT84, TMT85	Scale 1:1	Title CONTROL DRAWING CSA XP, NI, DIP		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		