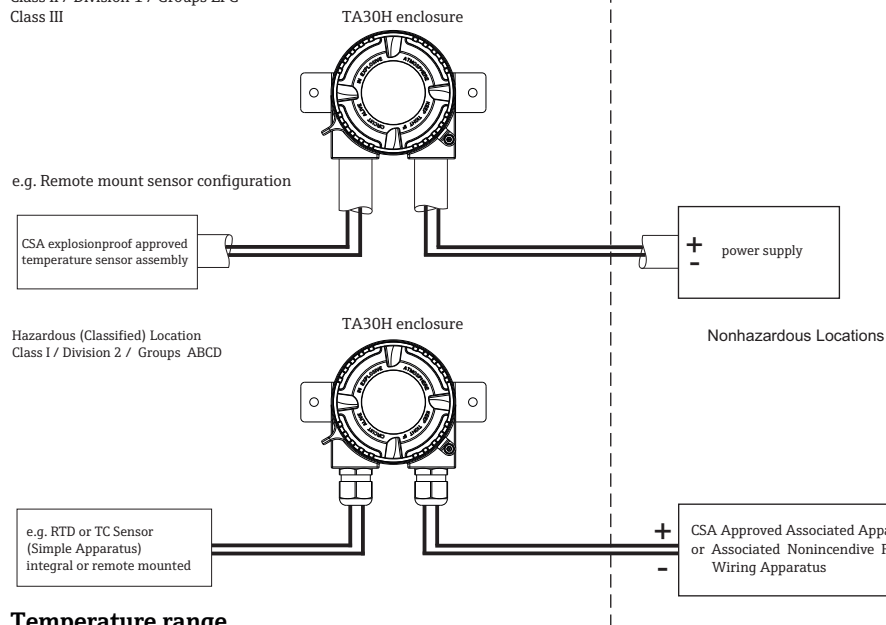


Hazardous (Classified) Location
Class I / Division 1, 2 / Groups ABCD
Class II / Division 1 / Groups EFG
Class III



Temperature range

without display, TID10

T4 -50°C ... +85°C
T5 -50°C ... +80°C
T6 -50°C ... +70°C

with display, TID10

T4 -50°C ... +85°C
T5 -50°C ... +80°C
T6 -50°C ... +70°C

NONINCENDIVE, FIELD WIRING

Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 3...7)

Uo or Voc or Vt = 7.6 V Io or Isc = 13 mA Po = 24.7 mW

Combined values:

Group A, B resp. IIC Co or Ca = 1 µF Lo or La = 10 mH
Group C, D resp. IIB Co or Ca = 4.5 µF Lo or La = 50 mH
Group C, D resp. IIA Co or Ca = 6.7 µF Lo or La = 50 mH

Installation Notes TMT82

- 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.
- **AVERTISSEMENT:** LA SUBSTITUTION DE COMPOSANTS PEUT COMPROMETTRE LA SÉCURITÉ INTRINSÈQUE OU L'APTITUDE À LA CLASSE I, DIVISION 2.

EXPLOSION PROOF

DUST IGNITION PROOF

- 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.

Class I / Div. 1 / Groups ABCD

Class II, III / Div. 1 / Groups EFG

NONINCENDIVE

Class I / Div. 2 / Groups ABCD Ex ic IIC

- Installation should be in accordance with the Canadian Electrical Code (CEC).
- Intrinsic safety barrier is required. $V_{max} \leq 35$ V DC.
- **WARNING:** EXPLOSION HAZARD - DO NOT CONNECT OR DISCONNECT WHILE CIRCUITS ARE LIVE UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS.
- **AVERTISSEMENT:** RISQUE EXPLOSIF- NE JAMAIS BRANCHEZ OU DECONNECTEZ QUAND LES CIRCUITS INTERNES SONT SOUS TENSION À MOINS QUE LA ZONE SOIT PAS À RISQUES.
- 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 $C_i = 0$ $L_i = 0$
 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.

Functional ratings

These ratings do not supersede Hazardous Location values

$U_{nom} \leq 42$ DC $I_{nom} \leq 4$ to 20 mA



	Approved Pfanzelt	Date (yyyy-mm-dd) 2011-06-08	Drawing No. 34 05 00 114	Dwg.rev. B	Revision no. -	Revision date (yyyy-mm-dd) 2024-06-10	Name MP	Material 71690318 XA02285T/09/EN/03.25-00	Endress+Hauser 	
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2011-06-06	Unit iTEMP TMT82	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