

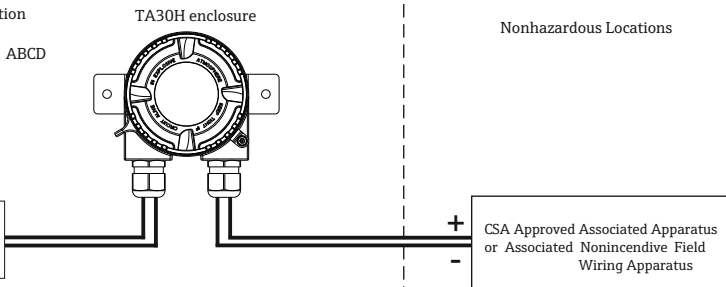
Hazardous (Classified) Location
 Class I / Division 1, 2 / Groups ABCD
 Class II, III, Zone 21, IIC
 Class II / Division 1 / Groups EFG
 Class III / Division 1

e.g. Remote mount sensor configuration



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

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



Temperature range

With or without display, TID10
 T4/T105°C -50°C ... +85°C
 T5/T100°C -40°C ... +80°C
 T6/T85°C -40°C ... +65°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

Nonhazardous Locations

Nonhazardous Locations

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.
- **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 Á MOINS QUE LA ZONE SOIT PAS Á RISQUES**



DUST IGNITION PROOF

**Ex tb IIC T85°C...T105°C Db
 Class II, Div. 1, Groups E, F & G, Class III, Div. 1**

EXPLOSION PROOF

**Ex db IIC T6...T4 Gb
 Class I, Division 1, Groups A, B, C, D; T6...T4**

- A dust tight seal must be used for conduit entry when the field display is used in a Class II or Class III location.
- Seal all conduits within 18 inches of enclosure.
- All Conduits must be assembled with a minimum of five full threads engagement.

NONINCENDIVE

**Ex ic IIC Gc T6...T4 Gc
 Class I, Division 2, Groups A, B, C, D; T6...T4 (Non Incendive Field Wiring (NIFW))**

- Intrinsic safety barrier is required. $V_{max} \leq 32$ V DC.
 - 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 $V_{oc} \leq V_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
- Field display Nonincendive Field Wiring parameters are as follows:
 U_i or $V_{max} \leq 32$ V DC $C_i \leq 5$ nF $L_i \leq 10$ µF
- 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.

Approved	Pfanzelt	Date (yyyy-mm-dd)	2011-06-08	Drawing No.	34 02 00 114	Dwg.rev.	A	Revision no.	-	Revision date (yyyy-mm-dd)	2026-02-06	Name	MP	Material	71771292 XA02286T/09/EN/02.26-00	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	2011-06-06	Unit	iTEMP TMT84, TMT85	Scale	1:1	Title	CONTROL DRAWING CSA		Series		Objekt version	Sheet	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	-	Format	A4	XP, NI, DIP		Objekt version	Sheet	1 of 1					