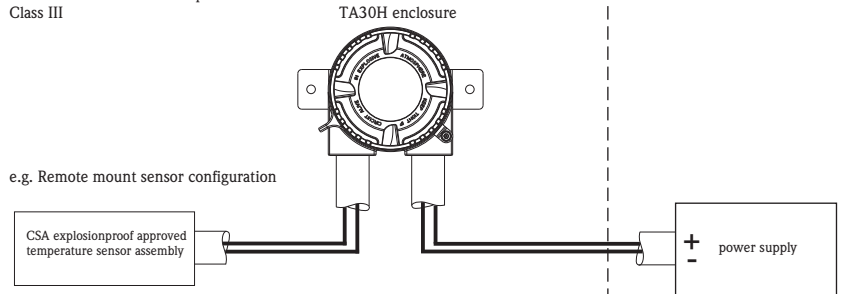
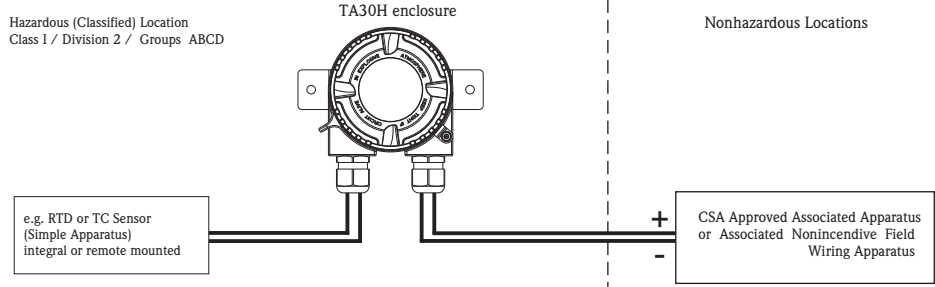


Hazardous (Classified) Location  
 Class I / Division 1, 2 / Groups ABCD  
 Class II / Division 1 / Groups EFG  
 Class III



e.g. Remote mount sensor configuration

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



**Temperature range**

without display, TID10	with display, TID10
T4 -40°C ... +85°C	T4 -40°C ... +85°C
T5 -40°C ... +80°C	T5 -40°C ... +80°C
T6 -40°C ... +70°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 = 7.6 V	Io or Isc = 13 mA	Po = 24.7 mW
Group A, B resp. IIC	Co or Ca = 10.4 µF	Lo or La = 236 mH
Group C, D resp. IIB	Co or Ca = 160 µF	Lo or La = 946 mH
Group C, D resp. IIA	Co or Ca = 1000 µF	Lo or La = 1.893 H

**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.



**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.
- 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  $C_i = 0$  nF  $L_i = 0$

$I_i$  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.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	71161263 ZD00090R/09/en/01.12	Endress+Hauser	
Designed	Pfanzelt	Date (yyyy-mm-dd)	2011-06-06	Unit	ITEMP TMT82			Scale	Title			Series			
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No.	-			Format	A4			CONTROL DRAWING CSA XP, NI, DIP	Objekt version	Sheet 1 of 1		
												Endress + Hauser Wetzer GmbH+Co. KG		Nesselwang / Germany	