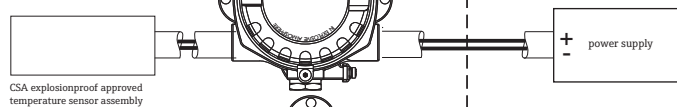
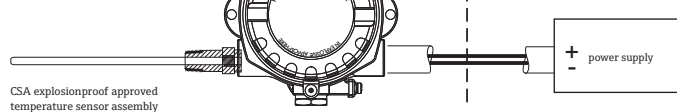


Hazardous (Classified) Location  
Class I / Division 1, 2 / Groups ABCD  
Class II / Division 1, 2 / Groups EFG  
Class III

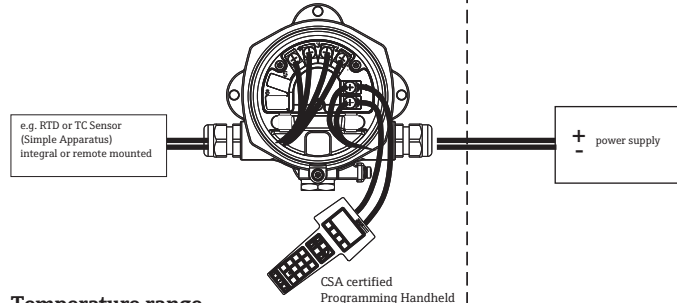
Remote mount sensor configuration



Direct mount sensor configuration:



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



### Temperature range

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

### NONINCENDIVE, FIELD WIRING

NI Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 1...4)

U<sub>o</sub> or V<sub>oc</sub> or V<sub>t</sub> = 7.6 V      I<sub>o</sub> or I<sub>sc</sub> = 29.3 mA      P<sub>o</sub> = 55.6 mW  
Group A, B resp. IIC      C<sub>o</sub> or C<sub>a</sub> = 10.4 µF      L<sub>o</sub> or L<sub>a</sub> = 40 mH  
Group C resp. IIB      C<sub>o</sub> or C<sub>a</sub> = 160 µF      L<sub>o</sub> or L<sub>a</sub> = 150 mH  
Group D resp. IIA      C<sub>o</sub> or C<sub>a</sub> = 1000 µF      L<sub>o</sub> or L<sub>a</sub> = 300 mH

### Installation Notes TMT142

#### 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 ≤ 40 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<sub>max</sub> ≤ 40 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<sub>oc</sub> ≤ V<sub>max</sub>, C<sub>a</sub> ≥ C<sub>i</sub> + C<sub>able</sub>, L<sub>a</sub> ≥ L<sub>i</sub> + L<sub>able</sub>.  
Transmitter Nonincendive Field Wiring parameters are as follows:  
U<sub>i</sub> or V<sub>max</sub> ≤ 40 V DC      C<sub>i</sub> = 5.3 nF      L<sub>i</sub> = 0  
I<sub>i</sub> or I<sub>max</sub> = see following note below  
For these current controlled circuits, the parameter I<sub>max</sub> is not required and need not to be aligned with parameter I<sub>sc</sub> and I<sub>t</sub> of the Associated Nonincendive Field Wiring Apparatus or Associated Apparatus.

#### Functional ratings

These ratings do not supersede Hazardous Location values  
U<sub>nom</sub> ≤ 40 DC      I<sub>nom</sub> ≤ 4 to 20 mA

Approved	Pfanzelt	Date (yyyy-mm-dd)	2005-04-01	Drawing No.	14 25 00 114			Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	71540250 XA02328T/09/EN/01.20	Endress+Hauser	
Volume (mm³)	Designed	Meroth	Date (yyyy-mm-dd)	2005-03-29	Unit	iTEMP TMT142			Scale	Title		Series	Object version		Sheet 1 of 1
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		Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany			