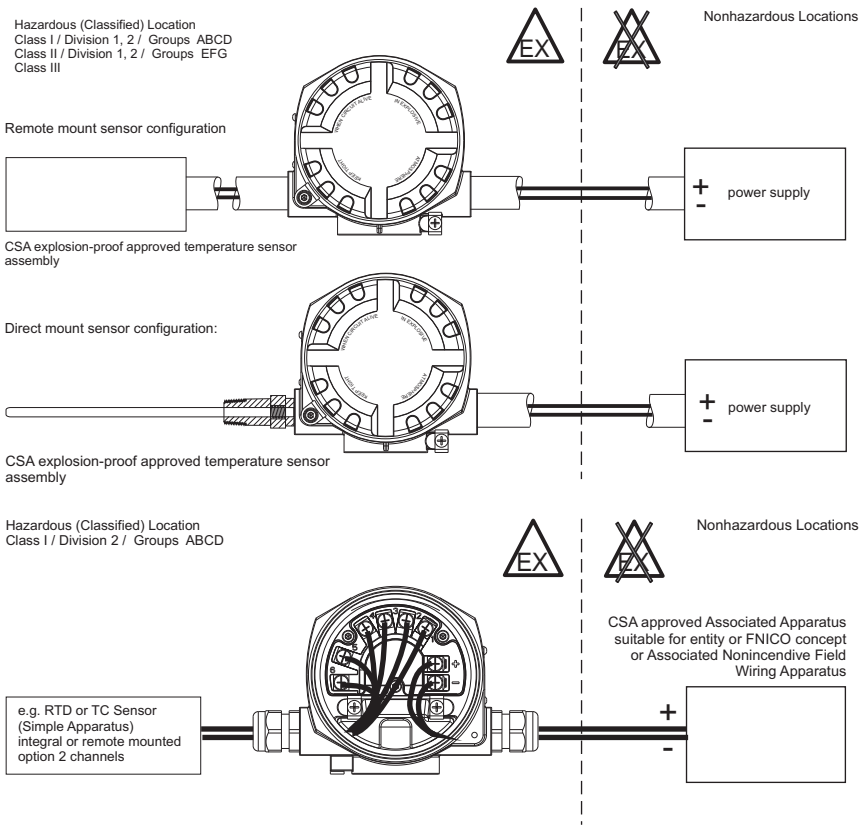

NONINCENDIVE, FIELD WIRING **Class I / Div. 2 / Groups ABCD**

Sensor circuits (Terminals 1…6)

Uo or Voc or Vt = 8.6 V	Io or Isc = 26.9 mA	Po = 57.6 mW
Group A, B resp. IIC	Co or Ca = 6.2 µF	Lo or La = 48 mH
Group C, D resp. IIB, IIA	Co or Ca = 55 µF	Lo or La = 180 mH

Installation Notes TMT 162

EXPLOSION PROOF **Class I / Div. 1 / Groups ABCD**
DUST IGNITION PROOF **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 ≤ 35 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. Vmax ≤ 35 V DC.
- Warning: Do not disconnect equipment unless power has been switched off or the area is known to be nonhazardous.
- 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 = 0
  Ii or Imax = see following note below
  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.
- The transmitter is suitable to be installed according to FNICO concept.

NOTE
When the product is installed as a FNICO installation use drawing 14 12 00 212.

Temperature range

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

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2006-05-05	14 12 00 214	-	-	-	-	710 03975 ZD 048R/09/en/07.05	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Meroth	2005-07-14	iTEMP TMT162 FF/PA	1:1	CONTROL DRAWING CSA XP, NI				
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