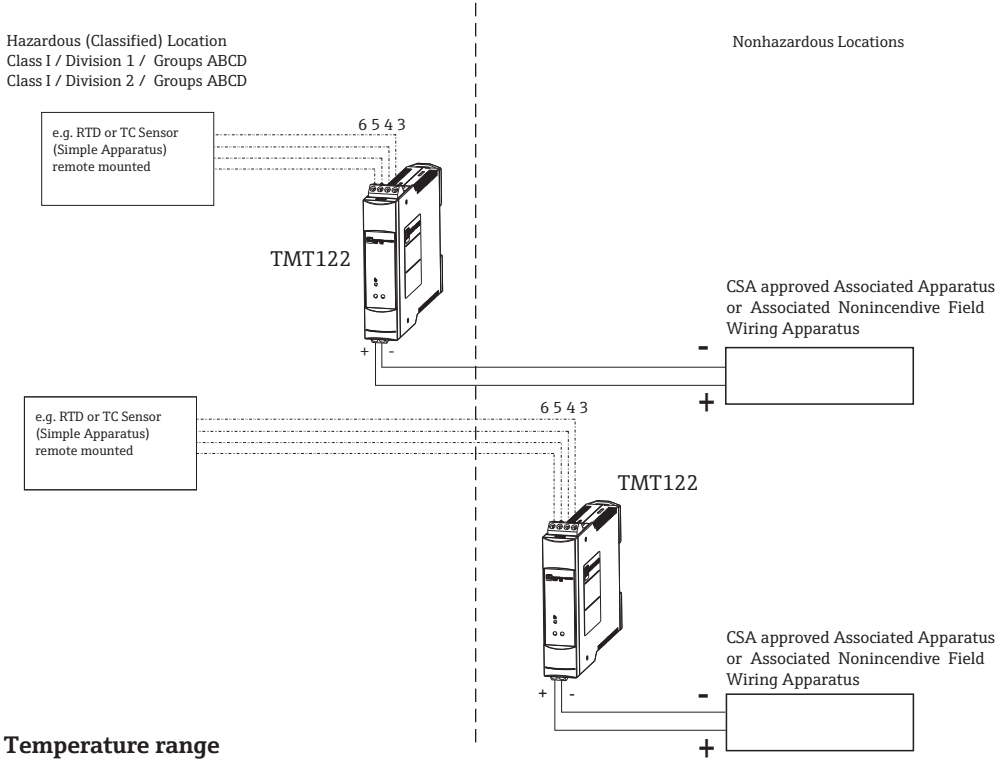

Temperature range

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

INTRINSICALLY SAFE IS Class I / Div. 1 / Groups ABCD
NONINCENDIVE, FIELD WIRING NI Class I / Div. 2 / Groups ABCD

Sensor circuits (Terminals 3...6)

Uo or Voc or Vt = 5.0 V Io or Isc = 5.9 mA Po = 7.2 mW

Group A, B resp.	IIC	Co or Ca = 100 µF	Lo or La = 100 mH
Group C resp.	IIB	Co or Ca = 1000 µF	Lo or La = 100 mH
Group D resp.	IIA	Co or Ca = 1000 µF	Lo or La = 100 mH

Installation Notes TMT122

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Use supply wires suitable for 5°C above surroundings.
- Stating that only simple apparatus should be terminated to the sensor connection.
  Simple apparatus is defined as a device that will neither generate nor store more than 1.2V, 0.1A, 0.25mW or 20µJ. Examples are Thermocouples or RTDs.

INTRINSICALLY SAFE Exia/ Class I / Div. 1 / Groups ABCD

- Installation should be in accordance with the Canadian Electrical Code (CEC).
- CSA Approved Associated Apparatus must meet the following parameters:
  Uo ≤ Ui Io ≤ Ii Po ≤ Pi Ca ≥ Ci + Ccable La ≥ Li + Lcable
  Transmitter entity parameters are as follows:
  Ui or Vmax ≤ 30 V DC Ci = 0
  Ii or Imax ≤ 100 mA Li = 0
  Pi ≤ 750 mW
- Voc + Voc of Handheld device < Vmax, Isc + Isc of Handheld device < Imax,
  Po + Po of Handheld device < Pi, Ca > Ci + Ccable + Ci of Handheld device,
  La > Li + Lcable + Li of Handheld device, when Programming Handheld device is used.
- Warning: Substitution of components may impair intrinsic safety.
- Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.

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 non-hazardous.
- Avertissement: La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Class I, Division 2.
- Transmitter provides nonincendive field wiring to the Thermocouple/RTD
- 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 ≤ 30 V DC Ci = 0 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.

Functional ratings

These ratings do not supersede Hazardous Location values
Unom ≤ 35 V DC Inom ≤ 4 to 20 mA

	Approved	Date (yyyy-mm-dd)	Drawing No.	Dwg.rev.	Revision no.	Revision date (yyyy-mm-dd)	Name	Material	
	Pfanzelt	2001-12-04	14 14 01 112A	B	W15105	2015-01-08	MP	71540282 XA02296T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed	Date (yyyy-mm-dd)	Unit	Scale	Title			Series	
	Pfanzelt	2001-12-04	iTEMP TMT122	1:1	CONTROL DRAWING CSA			Objekt version / Sheet	
Refer to protection notice ISO 16016	Edge of working parts ISO 13715	Geometrical tolerancing ISO 2768-mH-E	Part No. -	Format A4				1 of 1	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany