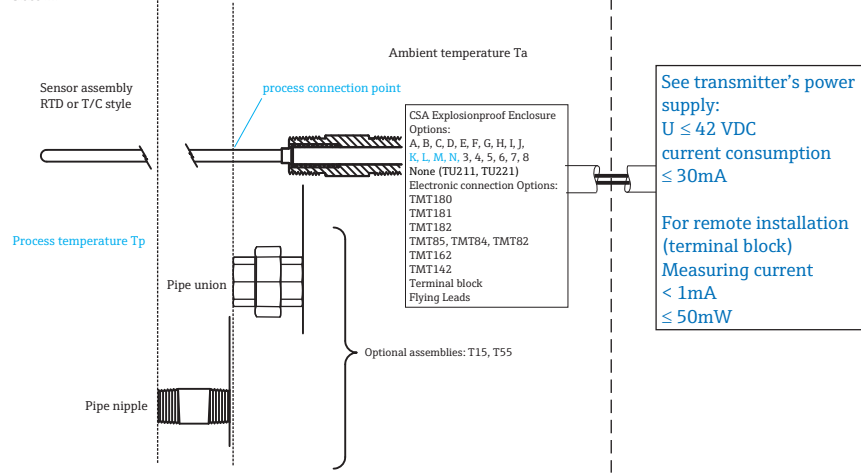




Hazardous (Classified) Location
 Class I / Division 1 / Groups BCD
 Class II / Division 1 / Groups EFG
 Class III

Nonhazardous Locations



It shall be verified, taking into account the worst case process and ambient temperatures, that the temperature of the enclosure at the process connection point does not exceed the ambient temperature range of the assembly.

Installation Notes T15, T55, TU221, TU211

- CSA approved apparatus must be installed in accordance with manufacturer's instructions.
- Install per Canadian Electrical Code.
- Use supply wires suitable for 5°C above surroundings.
- Keep tight when circuits alive.

**EXPLOSION PROOF
 DUST IGNITION PROOF**

**Class I / Div. 1 / Groups BCD
 Class II / Div. 1 / Groups EFG
 Class III**

- All conduits must be assembled with a minimum of five full threads engagement.
- A seal shall be installed within 18" of the enclosure
 Un scellement doit être installé à moins de 18" du boîtier.
- The flameproof joints are not intended to be repaired.
- For Class II Extension and/or Thermowell must be used to maintain CSA enclosure 4X rating.
- Following Sensor options shall be protected by a thermowell:
 T15- abcdefg...
 g Sensor Type:
 S 1 Pt100 TF StrongSens, 3 wire, class A, -50/500°C, vibration resistant until 60g
 T 1 Pt100 TF StrongSens, 4 wire, class A, -50/500°C, vibration resistant until 60g
 U 1 Pt100 TF StrongSens, 3 wire, class AA, -50/500°C, vibration resistant until 60g
 V 1 Pt100 TF StrongSens, 4 wire, class AA, -50/500°C, vibration resistant until 60g
- Enclosures must be CSA approved, for appropriate area classification (TU211, TU221).
- Class II use a dust tight seal.
- Refer to the marked maximum ratings for assembled temperature transmitter's supply.

	Approved Pfanzelt	Date (yyyy-mm-dd) 2005-10-25	16 01 00 115	Dwg.rev. C	Revision no. W18N20	Revision date (yyyy-mm-dd) 2019-08-26	Name MP	Material 71540283 XA02295T/09/EN/01.20	Endress+Hauser
Volume (mm³)	Designed Pfanzelt	Date (yyyy-mm-dd) 2005-10-24	Unit T15, T55, TU221, TU211	Scale 1:1	Title CONTROL DRAWING CSA Explosion-proof		Series		
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 2	Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany		

Permitted ambient temperatures

Class I, Division 1, Groups B, C and D;
Class II, Div. 1 Groups E, F & G; Class III:

Type	assembled head transmitter	Temperature class/code	ambient temperature housing
T15, T55	TMT18x	T6/T85°C	-40°C ≤ Ta ≤ +65°C
	TMT8x	T5/T100°C	-40°C ≤ Ta ≤ +80°C
T4/T135°C		-40°C ≤ Ta ≤ +85°C	
without electronic or with terminal block		T6/T85°C	-50°C ≤ Ta ≤ +70°C
		T5/T100°C	-50°C ≤ Ta ≤ +80°C
		T4/T135°C	-50°C ≤ Ta ≤ +120°C
		T3/T200°C	-50°C ≤ Ta ≤ +120°C
		T2/T300°C	-50°C ≤ Ta ≤ +120°C
		T1/T450°C	-50°C ≤ Ta ≤ +120°C


Type	assembled field transmitter	Temperature class/code	ambient temperature housing
T15, T55	TMT162, TMT142	T6/T85°C	-40°C ≤ Ta ≤ +55°C
		T5/T100°C	-40°C ≤ Ta ≤ +70°C
		T4/T110°C	-40°C ≤ Ta ≤ +85°C

Permitted process temperatures

Type	Insert diameter	Temperature class/ Maximum surface	Process temperature range for assembled head transmitter TMT18x, TMT8x	Process temperature range for assembled field transmitter TMT162, TMT142	
T15, T55	3mm, 3mm(dual), 6mm dual	T6 / T85°C	-50°C ≤ Tp ≤ +66°C	-50°C ≤ Tp ≤ +64°C	
		T5 / T100°C	-50°C ≤ Tp ≤ +81°C	-50°C ≤ Tp ≤ +79°C	
		T4 / T135°C	-50°C ≤ Tp ≤ +116°C	-50°C ≤ Tp ≤ +114°C	
		T3 / T200°C	-50°C ≤ Tp ≤ +181°C	-50°C ≤ Tp ≤ +179°C	
		T2 / T300°C	-50°C ≤ Tp ≤ +276°C	-50°C ≤ Tp ≤ +279°C	
		T1 / T450°C	-50°C ≤ Tp ≤ +426°C	-50°C ≤ Tp ≤ +424°C	
		6mm		T6 / T85°C	-50°C ≤ Tp ≤ +73°C
			T5 / T100°C	-50°C ≤ Tp ≤ +88°C	-50°C ≤ Tp ≤ +86°C
			T4 / T135°C	-50°C ≤ Tp ≤ +123°C	-50°C ≤ Tp ≤ +121°C
			T3 / T200°C	-50°C ≤ Tp ≤ +188°C	-50°C ≤ Tp ≤ +186°C
			T2 / T300°C	-50°C ≤ Tp ≤ +283°C	-50°C ≤ Tp ≤ +286°C
			T1 / T450°C	-50°C ≤ Tp ≤ +433°C	-50°C ≤ Tp ≤ +431°C

The dependency of the ambient and process temperatures upon the temperature class for assembly without transmitter (without electronic or with terminal block):

Insert diameter	Temperature class / Maximum surface	Process temperature range
		P ≤ 50 mW
3mm, 3mm (dual) or 6mm dual	T6 / T85°C	-50°C ≤ Tp ≤ +66°C
	T5 / T100°C	-50°C ≤ Tp ≤ +81°C
	T4 / T135°C	-50°C ≤ Tp ≤ +116°C
	T3 / T200°C	-50°C ≤ Tp ≤ +181°C
	T2 / T300°C	-50°C ≤ Tp ≤ +276°C
6mm	T1 / T450°C	-50°C ≤ Tp ≤ +426°C
	T6 / T85°C	-50°C ≤ Tp ≤ +73°C
	T5 / T100°C	-50°C ≤ Tp ≤ +88°C
	T4 / T135°C	-50°C ≤ Tp ≤ +123°C
	T3 / T200°C	-50°C ≤ Tp ≤ +188°C
	T2 / T300°C	-50°C ≤ Tp ≤ +283°C
	T1 / T450°C	-50°C ≤ Tp ≤ +433°C

Approved	Pfanzelt	Date (yyyy-mm-dd)	2005-10-25	Dwg.rev.	C	Revision no.	W18N20	Revision date (yyyy-mm-dd)	2019-08-26	Name	MP	Material	71473470 XA02295T/09/EN/01.20	Endress+Hauser 
Volume (mm³)	Designed	Date (yyyy-mm-dd)	2005-10-24	Unit	T15, T55, TU221, TU211			Scale	1:1	Title		CONTROL DRAWING CSA Explosion-proof		
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	2 of 2		Endress + Hauser Wetzer GmbH+Co. KG Nesselwang / Germany			