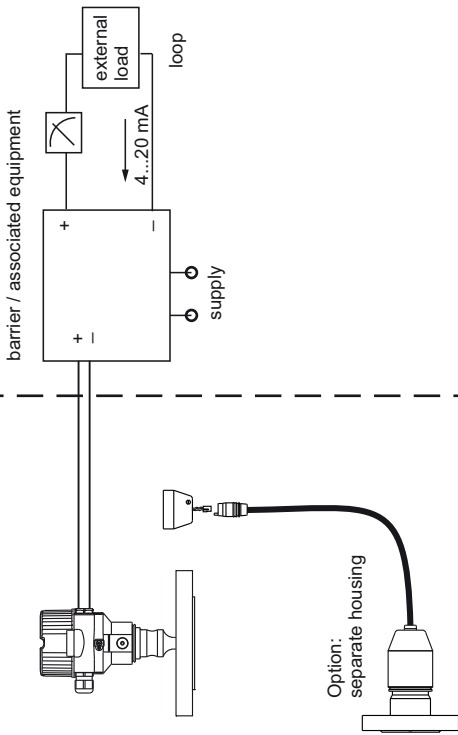


**Hazardous location**

Class I, Div. 1, Groups A, B, C, D  
Zone 0  
Class II, Div. 1, Groups E, F, G  
Class III



**Entity parameter:**

U<sub>i</sub> / V<sub>max</sub> = 30 VDC  
I<sub>i</sub> / I<sub>max</sub> = 300 mA  
P<sub>i</sub> / P<sub>max</sub> = 1 W  
C<sub>i</sub> ≤ 10 nF  
L<sub>i</sub> = 0

Table: Permissible ambient temperature and temperature code:

Temperature code	Permissible ambient temperature electronic compartment
T6	-40 °C...40 °C
T4	-40 °C...70 °C

option for Ta, min: -50 °C

The devices are CSA Certified as Single Seal per ANSI/ISA 12.27.01 as tabulated below; therefore installation of external secondary seals is not required.

Single Seal	Model	Limited to:	
		MWP*	Process Temperature**
	PMP51, PMP55	400 bar (5800 psi)	-40 °C...+100 °C
	PMC51	40 bar (600 psi)	-40 °C...+125 °C

\* Limitations of the Maximum Working Pressure (MWP) are marked on the nameplate and must be considered!  
\*\* Limitations of the process temperature range depending on the used version are specified in the applicable technical information of the manufacturer and must be considered! PMP55 allows higher process temperatures depending on the used diaphragm seal. This is allowable provided the above specified process temperatures are guaranteed at the sensor close to the enclosure (location of primary seal) for these types.

**Intrinsically safe Ex ia for Cl. I, Div. 1, Groups A, B, C, D, Cl. II, Div. 1, Groups E, F, G, Cl. III, Ex ia IIC T6**

**Hazardous Locations Installations**

**Division 1 Installation:**

- Control room equipment may not use or generate over 250 V.
- Install per the Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01
- For entity installations: Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions:  $V_{oc} \leq V_{max}$ ,  $I_{sc} \leq I_{max}$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$ .

Transmitter entity parameters are as follows:

U<sub>i</sub> / V<sub>max</sub> = 30 VDC  
I<sub>i</sub> / I<sub>max</sub> = 300 mA  
P<sub>i</sub> / P<sub>max</sub> = 1 W  
C<sub>i</sub> ≤ 10 nF  
L<sub>i</sub> = 0  
for T-code see table

**4. For System Installation:**

Use: CSA certified safety barriers as follows:

- 28 V / 300 Ω + ground or
- 28 V / 300 Ω + 28 V / diode or
- 28 V / 300 Ω + 10 V / 50 Ω

5. Warning: Substitution of components may impair intrinsic safety.

Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque.

6. Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment. The configuration of the intrinsic safety barrier(s) must be CSA approved.

7. Use supply wires suitable for 5 °C above surrounding.

Utiliser des fils d'alimentation qui conviennent à une température de 5 °C au-dessus de la température ambiante.

8. Service connection: for service purposes the Endress+Hauser Commubox FXA191 or FXA195 may be connected to the display connection of the electronic insert. Follow the safety advices of the Commubox.

9. Warning: Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings

**Suitable for Cl. I, Div. 2, Groups A, B, C, D, Cl. II, Div. 1, Groups E, F, G, Cl. III (only for NPT conduit entries) Hazardous Location Installation (not for separated housing)**

- Install per Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01.

Intrinsic safety barrier not required

Max. supply voltage 45 VDC

Max. ambient temperature: 70 °C

- Warning: Explosion Hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.

Avertissement : Risque d'explosion - Avant de déconnecter l'équipement, couper le courant ou s'assurer que l'emplacement est désigné non dangereux.

Warning: Open circuit before removing cover.

Avertissement : Ouvrir le circuit avant d'enlever le couvercle.

Warning: Substitution of Components may impair suitability for Cl. I, Div. 2.

Avertissement : La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Cl. I, Div. 2.

