

### Hazardous location

Class I, Div.1, Groups ABCD  
Zone 0  
Class II, Div.1, Groups EFG  
Class III

### Non hazardous location

barrier / associated equipment

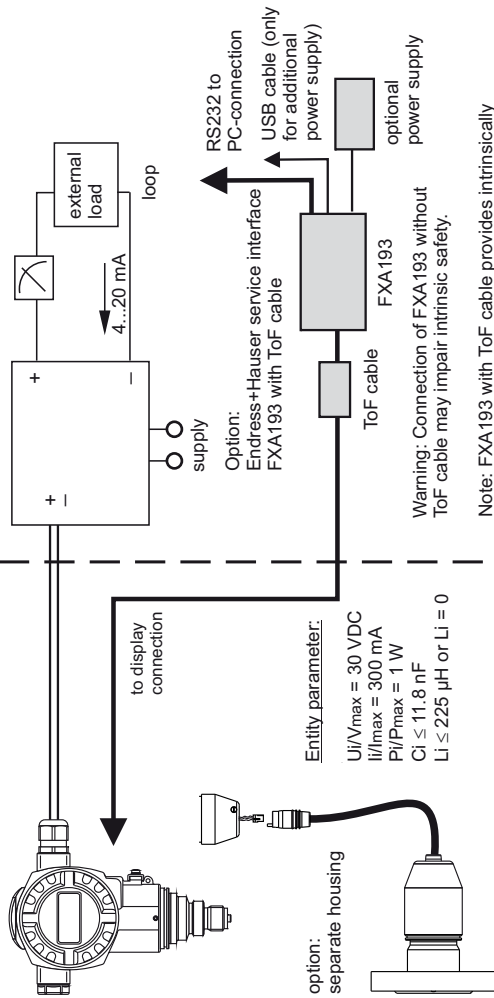


Table: Permissible ambient temperature and temperature code:

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 or Dual Seal per ANSI/ISA 12.27.01 as tabulated below; therefore installation of external secondary seals is not required.

Dual Seal	Model	Media	Annunciation in case of primary seal failure	
			Annunciation method	Pressure range for effective annunciation
	PMP71, PMP75, PMC71 (without separate housing; pressure range < 200 bar (2900 psi))	gas	audible	MWP*
		liquid	audible/visible	MWP*
Single Seal	Model	Limited to:		
		MWP*	Process Temperature**	
	PMP71, PMP75 (without separate housing; pressure range 200...400 bar (2900...5800 psi))	400 bar (5800 psi)	-40°C...+100°C	
	PMP71, PMP75 (with separate housing)	400 bar (5800 psi)	-40°C...+100°C	
PMC71 (with separate housing)	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! PMP75 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 Ci.I, Div.1, GP, ABCD, Ci. II, Div.1, GP, EFG, Ci.III; Ex ia IIC T6 Hazardous Locations Installations

#### Division 1 Installation:

- Control room equipment may not use or generate over 250 V and 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:

$U_i/V_{max} = 30 \text{ VDC}$ ;  $I_i/I_{max} = 300 \text{ mA}$ ;  $P_i/P_{max} = 1 \text{ W}$ ;  $C_i \leq 11.8 \text{ nF}$ ;

$L_i \leq 225 \mu\text{H}$  ('electronic' option code = A, B, C) or

$L_i = 0 \mu\text{H}$  ('electronic' option code = D, E, F); see table for T-codes.

- Note: Type of protection for PMC71: Intrinsically safe (Exia)

Ci.I, Div.1, GP, ABCD; Ci.II, Div.1, GP G + coal dust, Ex ia IIC T6

#### For System Installation:

Use: CSA certified safety barriers as follows:

(a) 28 V/ 300  $\Omega$  + ground or

(b) 28 V/ 300  $\Omega$  + 28 V/diode or

(c) 28 V/ 300  $\Omega$  + 10 V/50  $\Omega$

- Warning: Substitution of components may impair intrinsic safety.

Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque.  
 7. 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.

- 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.

- Remark: Versions with optional terminalblock with integrated overvoltage protection have an isolationvoltage greater than 420 VDC between terminal connections and potentially grounded metal parts.

- Avoid electrostatic charge of plastic surfaces, plastic process connections or coatings.

### Suitable for Ci.I, Div.2, GP, ABCD, Ci.II, Div.1, GP, EFG, Ci. III 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.
- 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 Ci.I, Div.2.  
 Avertissement : La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Ci.I, Div.2.

