

Hazardous location

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

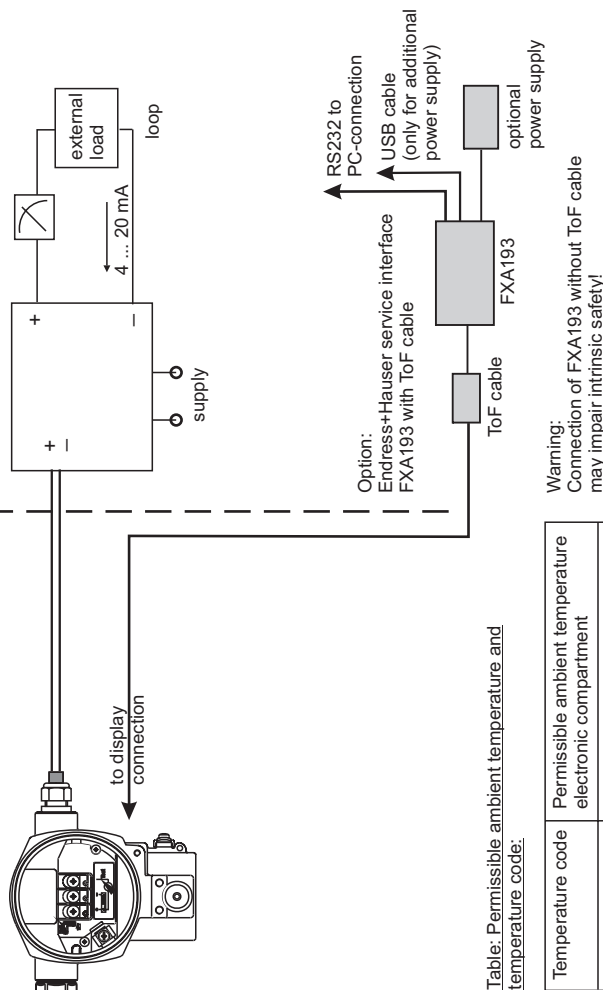


Table: Permissible ambient temperature and temperature code:

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

option for Ta min: -50 °C

Warning:
Connection of FXA193 without ToF cable may impair intrinsic safety!

Note:
FXA193 with ToF cable provides intrinsically safe circuits for connection to the display connector of Deltabar S transmitters, when they are installed in Class I, Div. 1, Groups A, B, C, D hazardous locations.

Deltabar S FMD77, FMD78, PMD75	This device does not rely on a single seal to allow passage of process fluids into the electrical or conduit system. Hence, Sec. 18, clause 18-092... of the CEC does not apply and a secondary seal is not required in the conduit.
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This device is suitable to be installed in accordance with the wiring methods of Division 1 / Zone 0 for intrinsic safety (as defined above) or for Division 1 / Zone 1 for explosion proof protection.

For installations in accordance with the requirements of explosion proof protection the device is suitable for: Cl. I, Div. 1, Groups A, B, C, D, Cl. II, Div. 1, Groups E, F, G, Cl. III seals must be installed within 18 inches of enclosure.

Max. supply voltage: 45 VDC

Ambient temperature range: -40...75 °C (optional Ta min -50 °C)

Warning: Changing the type of protection after first installation may impair the explosion protection.

Non hazardous location

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: $U_i / V_{max} = 30$ VDC
 $I_i / I_{max} = 300$ mA
 $P_i / P_{max} = 1$ W
 $C_i \leq 11.8$ nF
 $L_i \leq 225$ μ H
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. Remark: Versions with optional terminal block with integrated overvoltage protection have an isolation voltage greater than 420 VDC between terminal connections and potentially grounded metal parts.

Suitable for Cl. I, Div. 2, Groups A, B, C, D, Cl. II, Div. 2, Groups E, F, G, Cl. III
Hazardous Locations Installations

- 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.

2. 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.

