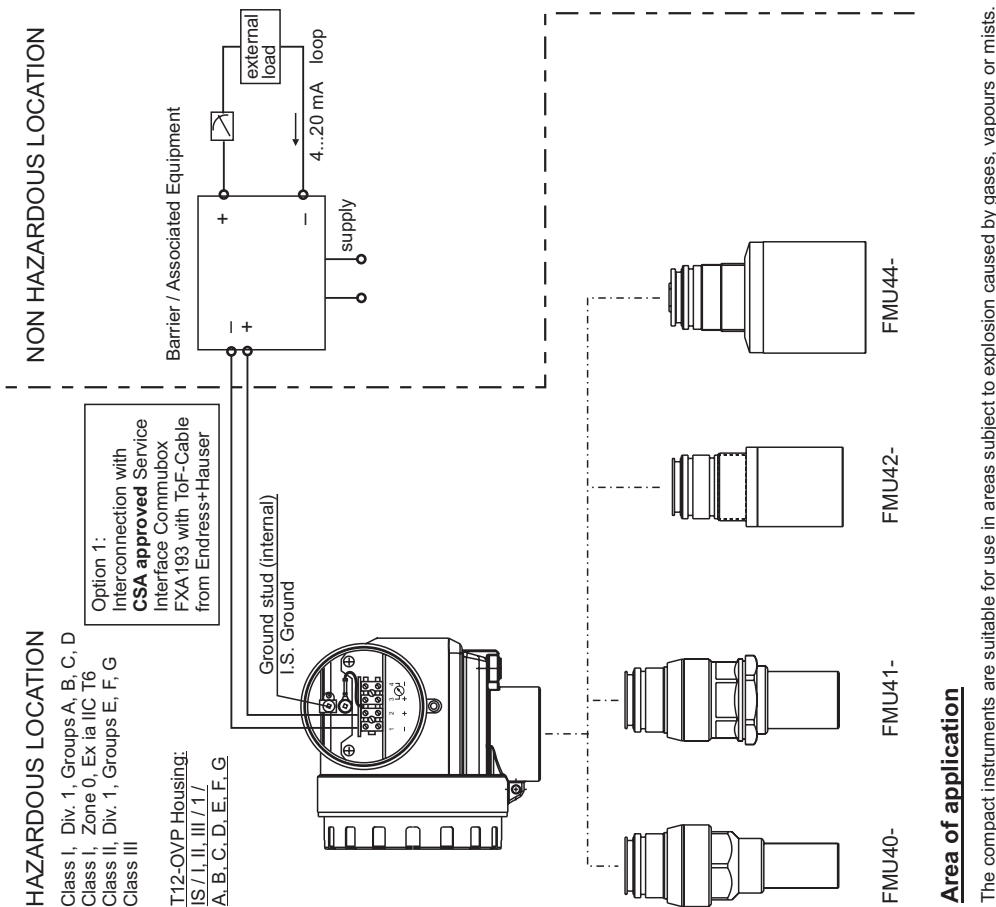




Area of application

The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.

Permissible ambient temperature:

Electronics: intrinsically safe, T12-OVP enclosure: -40...+80 °C (-40...+176 °F)

Sensors: (FMU40, FMU41, FMU42, FMU44): -40...+80 °C (-40...+176 °F)

Permissible process / ambient temperature and temperature code:

Temperature code of FMU40/41/42/44	Permissible medium temperature (flange)	Permissible ambient temperature of electronics compartment as a function of medium temperature (sensor)
T6	+60 °C	+60 °C
T5	+80 °C	+75 °C
T4	+80 °C	+80 °C

Notes:

Intrinsically safe installation

Intrinsically Safe (Ex ia), Class I, Div. 1, Groups A, B, C, D or Ex ia IIC

Hazardous Location Installation

- Control room equipment may not use or generate over 250 V_{RMS}.
- The installation must be in accordance with the Canadian Electrical Code (CEC).
- Warning: Substitution of components may impair intrinsic safety.
Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.
- Ex ia / IS is defined as intrinsically safe / sécurité intrinsèque.
- For entity installation use CSA certified safety barrier or other associated equipment that satisfy the following conditions:

with $U_O / V_{OC} \leq U_I / V_{max}$, $I_O / I_{SC} \leq I_I / I_{max}$, $C_O / C_d \geq C_I + C_{cable}$, $L_O / L_d \geq L_I + L_{cable}$

U_I / V_{max} [V]	I_I / I_{max} [mA]	P_I / P_{max} [W]	C_I [nF]	L_I [μH]
30	273	1.0	≤ 13	negligible

- For system installations use CSA certified safety barriers as follows:

(a) 28 V / 300 Ω + Ground or

(b) 28 V / 300 Ω + 28 V / Diode or

(c) 28 V / 300 Ω + 10 V / 50 Ω

- Caution: Use only supply wires suitable for 5 K above surrounding temperature.

Utiliser des fils de l'alimentation qui conviennent à une température de 5 K au-dessus de la température ambiante.

- Install barrier / associated apparatus in accordance with manufacturer's instructions.

- The surge protection device (OVP) fulfils the requirements of CAN/CSA-E60079-14 clause 12.3.

- In case of FMU44 avoid electrostatic charge at the sensor

(e.g. do not rub with dry cloth; do not install within the filling curtain).

Class I, Div. 2, Groups A, B, C, D or Ex nC IIC and DIP for Class II and III, Div. 1, Groups E, F, G Hazardous Location Installation

Class I, Div. 2, Groups A, B, C, D or Ex nC IIC and DIP for Class II and III, Div. 1, Groups E, F, G Hazardous Location Installation

- Depending on Location install per Canadian Electrical Code (CEC) using wiring methods described in Rule 18-156 or Rule 18-202 or Rule 18-302. Intrinsic safety barrier not required. Max. supply voltage 30 V. For T-code see table.
- 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: Explosion Hazard - Substitution of components may impair suitability for Class I, Div. 2.
Avertissement : Risque d'explosion - La substitution de composants peut rendre ce matériel inacceptable pour les emplacements de Classe I, Div. 2.

For Class II and III, Div. 1

Warning: Keep cover tight unless power has been switched off or the area is known to be non-hazardous.

