

HAZARDOUS LOCATION

Class I, Div. 1, Groups A, B, C, D

Ex d IIC T6

Housing: Class I, Zone 1

Sensor: Class I, Zone 0

Class II, Div. 1, Groups E, F, G

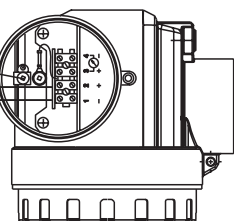
Class III

T12-Housing:

XP / I, II, III / 1 /

A, B, C, D, E, F, G

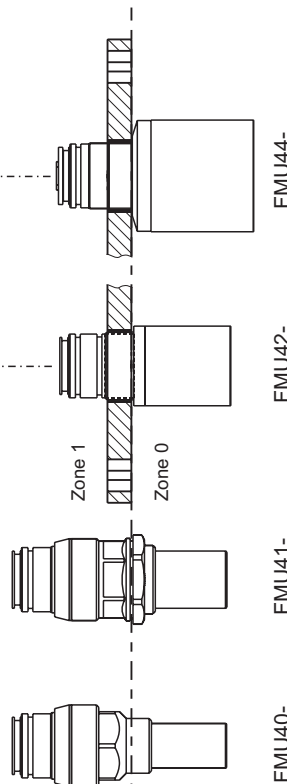
Option 1:
Interconnection with
CSA approved Service
Interface Commubox
FXA193 with ToF-Cable
from Endress+Hauser



$U_{in} = 14...30\text{ V or }32\text{ V}$
(see nameplate)

Ground stud (internal)
/ I.S. Ground

Option 2:
Prepared to connect
CSA approved remote
display type FHX40
from Endress+Hauser
refer to adequate
Control Drawing



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: T12 enclosure: $-40...+60\text{ °C}$ ($-40...+140\text{ °F}$)

Sensors: (FMU40, FMU41, FMU42, FMU44): $-40...+80\text{ °C}$ ($-40...+176\text{ °F}$)

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	+60 °C
T4	+80 °C	+60 °C

Notes:

Explosion proof, Class I, Div. 1, Groups A, B, C, D or Ex d IIC and Class II, Div. 1, Groups E, F, G and Class III. Hazardous Location Installation

1. Control room equipment may not use or generate over 250 V_{RMS}.

2. The installation must be in accordance with the Canadian Electrical Code (CEC).

3. Supply wires shall be installed in conduit in accordance with the CEC.

4. Terminal compartment:

Warning: Keep cover tight when circuits are alive unless the area is known to be non-hazardous.

5. Use supply wires suitable for 5 K above surrounding ambient.

6. For electronics: maximum ambient temperature = 60 °C.

7. Grounding stud shall be connected to a grounding electrode by 12 AWG wire or larger insulated conductors. Resistance between ground stud and grounding electrode shall be less than 1 Ω.

8. Use a dust tight seal at the conduit entry in Class II and III location.

9. This version of Prosonic M may be provided with a connection to an external display unit already installed or via a set up kit. This connection is for the use of the CSA certified display unit FHX40 only. Refer to safety instructions of the external display unit FHX40.

10. 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

1. 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 or 32 V (see nameplate). For T-code see table.

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: 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.

