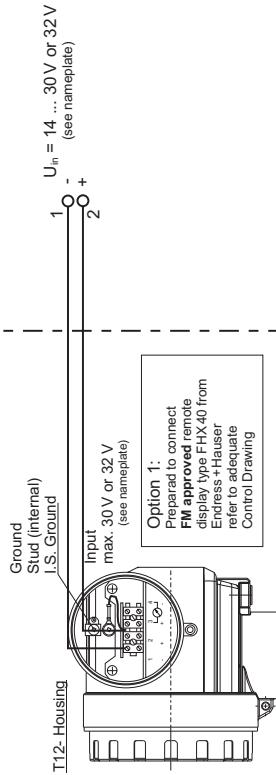


**HAZARDOUS LOCATION**  
 Class I, Div 1, 2, Groups A, B, C, D  
 Housing: Class I, Zone 1, IIC  
 Sensor: Class I, Zone 0, IIC  
 Class II, Div 1, 2, Groups E, F, G  
 Class III

**NON HAZARDOUS LOCATION**

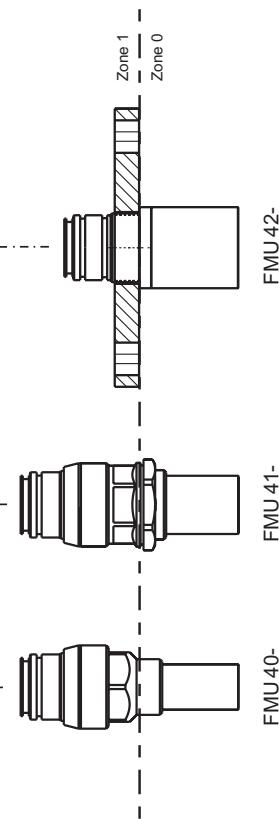


ZD098F/00/en/09.04  
 CCS/FM6.0  
 FM

## Control drawing 960523-1082 C



Prosonic M FMU40/41/42  
 T12 / XP



**Area of application:**  
 The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.  
**Permissible ambient temperature:**  
 Electronic: -40 ... +60 °C resp. -40 ... +140 °F

Type	Type of sensor	Operation temperature
FMU40-	1½"-sensor	-40 to +80 resp. -40 to +176
FMU41-	2"-sensor	-40 to +80 resp. -40 to +176
FMU42-	3"-sensor	-40 to +80 resp. -40 to +176

### Notes:

**Division 1 installation**

Explosion proof, Class I, Div. 1, Group A, B, C, D or Zone 1/0 IIC Hazardous Location Installation  
 1 Control room equipment may not use or generate over 250 Vrms.  
 2 Installation should be in accordance with the National Electrical Code NFPA 70 (NEC).

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

4 Terminal compartment.

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

6 Supply wires suitable for 5K above surrounding ambient.

7 Ground stud shall be connected to a grounding electrode by 12 AWG wire or larger insulated conductors.

8 Resistance between ground stud and grounding electrode shall be less than 10 Ω.

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 FM approved display unit FMX 40 only.

Refer to safety instructions of the external display unit FMX 40.

### Division 2 and Zone 2 installation

Nonincentive Class I, Div. 2, Group A, B, C, D Hazardous Location Installation

1 Installation shall be in accordance with NEC using threaded conduits or other wiring methods in accordance with Article 500 through Article 510. 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.

Warning: Explosion hazard - substitution of components may impair suitability for Class I, Div. 2.

### Class II, III installation

DIP for Class II and III, Div. 1, Group E, F, G Hazardous Location Installation

1 Installation shall be in accordance with NEC using threaded conduits or other wiring methods in accordance with Article 500 through Article 510.

2 Use a dust tight seal at the conduit entry.

Temperature class with/without Display VU 331	Permissible maximum medium temperature at the sensors	Permissible maximum ambient ( $T_a$ ) of electronic compartment (enclosure T12)
T6	+60 °C	FMU41 +60 °C
T5	+80 °C	FMU42 +60 °C
T4	+90 °C	+60 °C

**Endress+Hauser**

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