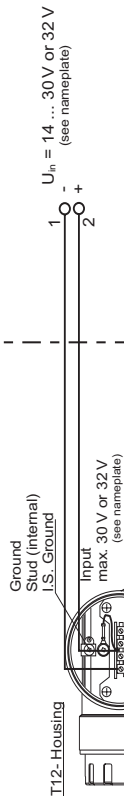
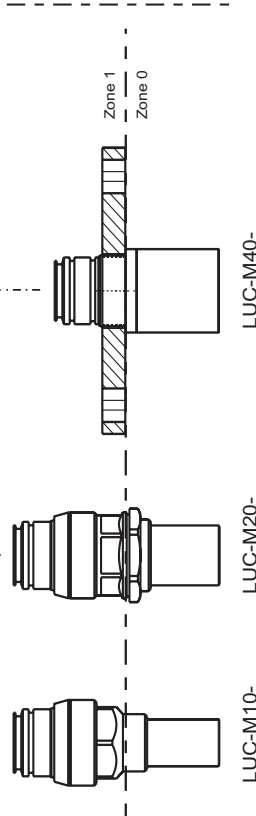


HAZARDOUS LOCATION

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



Option 1:
Prepared to connect
FM approved remote
display type LUC-Z40-Ex1*
see the corresponding
Control Drawing



NON HAZARDOUS LOCATION

Notes:

- Division 1 installation**
Explosion proof, Class I, Div. 1, Group A, B, C, D or Zone 1/0 IIC Hazardous Location Installation
Control room equipment may not use or generate over 250 Vrms.
Installation should be in accordance with the National Electrical Code NFPA 70 (NEC).
Supply wires shall be installed in conduit in accordance with the NEC.
Terminal compartment:
Warning: Keep cover tight when circuit is alive unless the area is known to be non-hazardous.
Use supply wires suitable for 5K above surrounding ambient.
For electronics: maximum ambient temperature = 60 °C.
Ground 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.
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 LUC-Z40-Ex1* only.
Refer to safety instructions of the external display unit LUC-Z40-Ex1*.

Division 2 and Zone 2 installation

- Nonincendive Class I, Div. 2, Group A, B, C, D Hazardous Location Installation
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.
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
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 531	Permissible maximum medium temperature at the sensors	Permissible maximum ambient (T _a) of electronic compartment (enclosure T12)	
		LUC-M10- +60 °C	LUC-M20- +60 °C
T6	+60 °C	+60 °C	LUC-M40- +60 °C
T5	+80 °C	+60 °C	+60 °C
T4	+80 °C	+60 °C	+60 °C

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: T12 enclosure -40 ... +60 °C resp. -40 ... +140 °F

Type	Type of sensor	Operation temperature °C resp. °F
LUC-M10-	1 1/2"-sensor	-40 to +80 resp. -40 to +176
LUC-M20-	2"-sensor	-40 to +80 resp. -40 to +176
LUC-M40-	3"-sensor	-40 to +80 resp. -40 to +176

