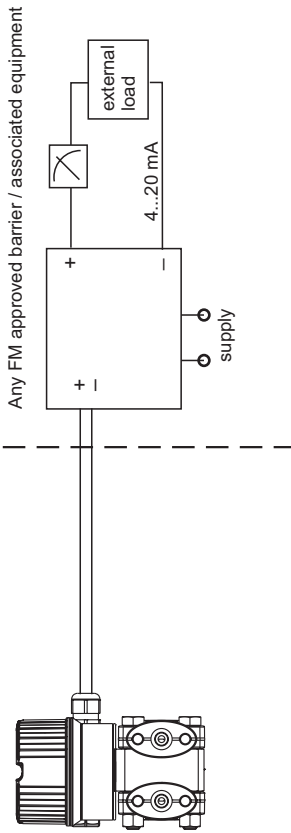


**Hazardous location**

- Class I, Div. 1, 2, Groups A, B, C, D
- Class I, Zone 0, IIC
- AEx ia IIC T6
- Class II, Div. 1, 2, Groups E, F, G
- Class III

**Non hazardous location**



**Intrinsically safe installation**

Intrinsically safe (entity), Class I, II, III, Div. 1, Groups A, B, C, D, E, F, G  
 Hazardous Location Installation

1. Control room equipment may not use or generate over 250 V.
2. Use Factory Mutual Entity-approved intrinsic safety barrier with  $V_{oc}$  or  $V_t \leq V_{max}$ ,  $I_{sc}$  or  $I_t \leq I_{max}$ ,  $C_a \geq C_i + C_{cable}$ ,  $L_a \geq L_i + L_{cable}$ . Barrier must be incapable of delivering more than 1 Watt to a matched load. Transmitter entity parameters are as follows:  
 $V_{max} = 30$  VDC  
 $I_{max} = 300$  mA  
 $C_i \leq 10$  nF  
 $L_i = 0$   
 For T-code see table
3. Installation should be in accordance with ANSI/ISA RP 12.06.01. Installation of intrinsically safe systems for hazardous (classified) locations and the National Electrical Code (ANSI/NFPA 70).
4. Warning: Substitution of Components may impair intrinsic safety.
5. Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment: The configuration of the intrinsic safety barrier(s) must be FMRC approved.
6. Use supply wires suitable for 5°C above surrounding ambient.

**Entity parameter:**

- $V_{max} = 30$  VDC
- $I_{max} = 300$  mA
- $P_{max} = 1$  W
- $C_i \leq 10$  nF
- $L_i = 0$

**Areas of application:**

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

**Table: Permissible ambient temperature and temperature code:**

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

option for Ta min: -50 °C

This device is suitable to be installed in accordance with the wiring methods of Division 1/Zone 0 resp. Zone 20 for intrinsic safety (as defined above) and 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:

Explosion proof for Class I, Div. 1, Groups A, B, C, D  
 Conduit seal is not required!

Max. supply voltage: 45 VDC  
 $P \leq 1,1$  W

Ambient temperature range: -40°C...+75°C (optional Ta min -50°C)  
 Warning: Conductors shall be rated 10°C above ambient.

Warning: Keep cover tight, while circuit is alive.  
 Warning: Changing the type of protection after first installation may impair the explosion protection.



71109011

**FM Control Drawing**  
**960009542 -**

Deltabar M  
 PMD55  
 4...20 mA HART (XP+IS)



People for Process Automation