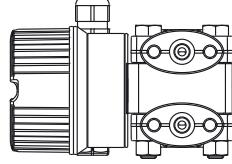


Hazardous location

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



Non hazardous location

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 $V_t \leq V_{max}$, $I_{sc} \leq I_{tmax}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
3. Transmitter entity parameters are as follows: $V_{max} = 30$ VDC
 $I_{max} = 300$ mA
 $C_i = 10$ nF
 $L_i = 0$
for T-code see table
4. 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).
5. Warning: Substitution of Components may impair intrinsic safety.
6. Use supply wires suitable for 5°C above surrounding ambient.
7. Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings.

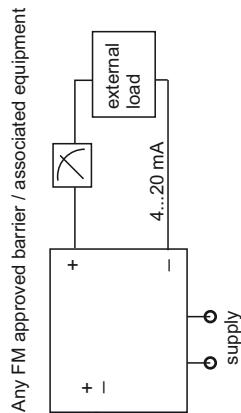


Table: Permissible ambient temperature and temperature code:

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

option for $T_{a,min} -50^\circ\text{C}$

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.

XAO1159P-B/00/EN/02.17
CCS/EM10
FB/M 14.10.16

FM Control Drawing 960009542-B

Deltabar M PMD55
HART
(IS + XP)



71356444

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 explosionproof protection. For installations in accordance with the requirements of explosion proof protection the device is suitable for:

Explosionproof for Cl I Div. 1 Gp. ABCD
Conduit seal is not required!

Max. supply voltage:
45 VDC
 $P \leq 1.1$ W

Ambient temperature range: -40°C...+75°C (optional $T_{a,min} -50^\circ\text{C}$)

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.

The devices are FM Certified as Dual Seal per ANSI/ISA 12.27.01 as tabulated below; therefore installation of external secondary seals is not required.

Dual Seal	Model	Media	Annunciation in case of primary seal failure	
			Annunciation method	Pressure range for effective annunciation min
	PMD55	gas	audible	3.5 bar (50.7 psi)
		liquid	audible/visible	3.2 bar (46.4 psi)

* Limitations of the Maximum Working Pressure (MWP) are marked on the nameplate and must be considered!

Endress+Hauser

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