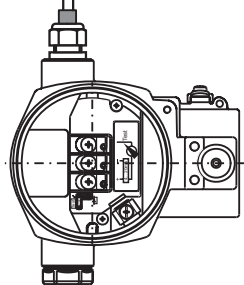




FM Control Drawing
960006670 A
Cerabar S
PMP71, PMP72, PMP75
4...20 mA HART

Hazardous location

Class I, Div. 1, Groups A, B, C, D
Class I, Zone 0, IIC
Class II, Div. 1, Groups E, F, G
Class III



Entity parameter:

$V_{max} = 30 \text{ VDC}$
 $I_{max} = 200 \text{ mA}$
 $P_{max} = 1 \text{ W}$
 $C_i \leq 11.8 \text{ nF}$
 $L_i \leq 225 \mu\text{H}$

Non-hazardous location

Any FM approved barrier / associated equipment

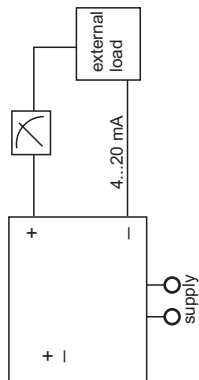


Table: Permissible ambient temperature and temperature code:

Temperature code	Permissible ambient temperature, electronic compartment
T6	-40°C...+40°C
T4	-40°C...+70°C
T3, T2 (for PMP72)	-40°C...+70°C

option for Ta min: -50°C

This device is suitable to be installed in accordance with the wiring methodes of Division 1/ Zone 0 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:

XP, Ci.I, Div.1 Gp. ABCD, DIP for Ci.II Div.1 EFG, Ci.III
conduit seal must be installed within 18 inches of enclosure
max. supply voltage: 45 VDC

ambient temperature range: -40°C...75°C (optional Tamin -50°C)

Warning: Changing the type of protection after first installation may impair the explosion protection

Note: type of protection for pressure range 700 bar:
XP, Ci.I, Div.1 Gp. BCD, DIP for Ci.II Div.1 EFG, Ci.III

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

1. Control room equipment may not use or generate over 250 V
2. Use FM Approval Entity-approved intrinsic safety barrier with $V_o \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_a \geq C_i$, $L_a \geq L_i$
Barrier must be incapable of delivering more than 1 Watt to a matched load.
Transmitter entity parameters are as follows:
 $V_{max} = 30 \text{ VDC}$
 $I_{max} = 200 \text{ mA}$
 $C_i \leq 11.8 \text{ nF}$
 $L_i \leq 225 \mu\text{H}$
 $P_{max} = 1 \text{ W}$
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 FM Approvals approved.
6. Use supply wires suitable for 5°C above surrounding ambient.

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

1. Depending on location install per National Electrical Code (NEC) using wiring methods described in Article 500 through 510.
Intrinsic safety barrier not required
max. supply voltage 45 VDC

2. A dust tight seal must be used at the conduit entry when the transmitter is used in a class II & III location.
3. Warning: Explosion Hazard – Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.

Agency controlled drawing.
No changes without prior
agency approval.