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71217883

FM Control Drawing
960006699 F

Cerabar S PMP71, PMP75, PMC71
4-20 mA HART
IS, NI, DIP

Endress+Hauser
People for Process Automation

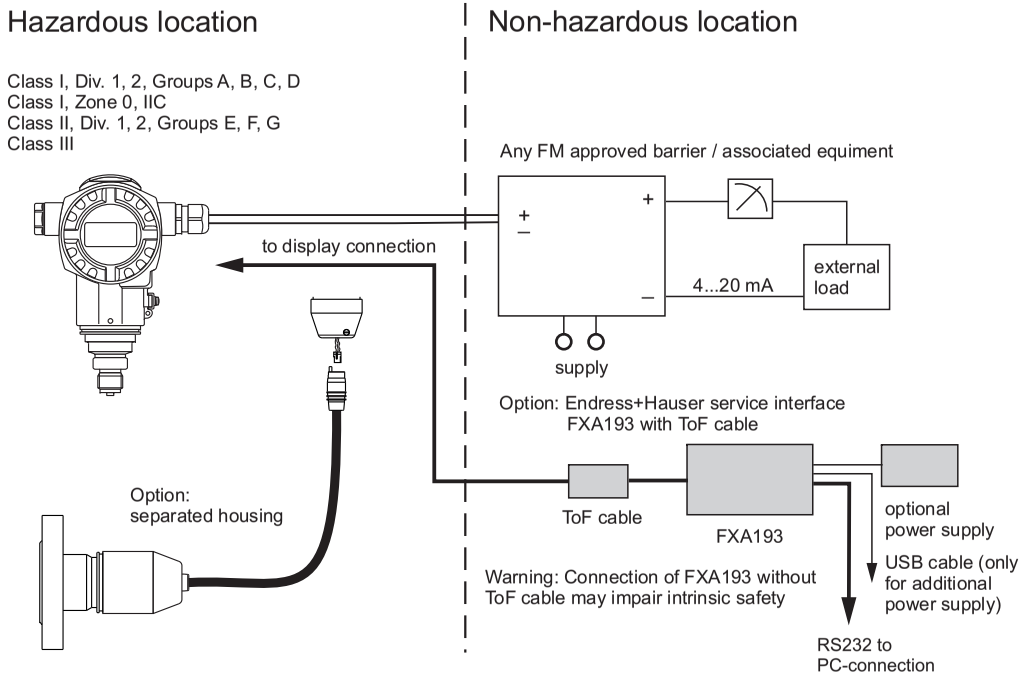

Table: Permissible ambient temperature and temperature code:

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

option for Ta min: –50°C

Functional ratings:
These ratings do not supersede Hazardous Location values

Unom ≤ 45 VDC
Inom = 4..20 mA (max. 25 mA)

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

	Model	Annunciation in case of primary seal failure			
		Media	Annunciation method	Pressure range for effective annunciation min	MWP*
Dual Seal	PMP71, PMP75, PMC71 (without separate housing; pressure range < 200 bar (2900 psi))	gas	audible	0.4 bar (5.8 psi)	PMP: 200 bar (2900 psi) PMC: 60 bar (870 psi)
		liquid	audible/visible	1.0 bar (14.5 psi)	

	Model	Limited to	
		MWP*	Process temperature**
Single Seal	PMP71, PMP75 (without separate housing; pressure range 200...400 bar (2900...5800 psi))	400 bar (5800 psi)	–40°C...+100°C
	PMP71, PMP75 (with separate housing)	400 bar (5800 psi)	–40°C...+100°C
	PMC71 (with separate housing)	40 bar (580 psi)	–40°C...+125°C

* Limitations of the Maximum Working Pressure (MWP) are marked on the nameplate and must be considered!
** Limitations of the process temperature range depending on the used version are specified in the applicable technical information of the manufacturer and must be considered! PMP75 allows higher process temperatures depending on the used diaphragm seal. This is allowable provided the above specified process temperatures are guaranteed at the sensor close to the enclosure (location of primary seal) for these types.

Intrinsically safe installation

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

1. Control room equipment may not use or generate over 250 V.
2. Use Factory Mutual Entity-approved intrinsic safety barrier with Voc or Vt ≤ Vmax, Isc or It ≤ Imax, Ca ≥ Ci + C_{cable}, La ≥ Li + L_{cable}.
   Barrier must be incapable of delivering more than 1 Watt to a matched load.
   Transmitter entity parameters are as follows: Vmax = 30 VDC
   Imax = 200 mA
   Ci ≤ 11.8 nF
   Li ≤ 225 µH ('electronic' option code A, B, C)
   or Li = 0 ('electronic' option code D, E, F)
   For T-code = see table
3. Installation should be in accordance with ANSI/ISA RP12.06.01 „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.
7. Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings.

Division 2 and Zone 2 installation

Nonincendive Class I, Div. 2, Group A, B, C, D
Hazardous Location Installation (not for separate housing)

8. Installation shall be in accordance with NEC using threaded conduits or other wiring methods in accordance with articles 500 to 510.
   Intrinsic safety barrier not required
   Max. supply voltage 45 VDC
   For T-code see table
9. Warning: Explosion hazard - Do not disconnect equipment unless power has been switched off or the area is known to be non hazardous.
   Warning: Substitution of Components may impair suitability for Class I, Div. 2.
10. Nonincendive field wiring installation
    The Nonincendive Field Wiring Circuit Concept allowes interconnection of nonincendive field wiring apparatus with associated nonincendive field wiring apparatus or associated apparatus not specifically examined in combination as a system using any of the wiring methods permitted for unclassified locations, when Vmax ≥ Voc or Vt, Ca ≥ Ci + C_{cable}, La ≥ Li + L_{cable}.
    Transmitter parameters are as follows: Vmax = 45 VDC; Ci ≤ 11.8 nF; Li ≤ 225 µH ('electronic' option code A, B, C) or Li = 0 ('electronic' option code D, E, F) Imax = see note 11.
11. For these current controlled circuit, the parameter Imax is not required and need not to be aligned with parameter Isc and It of the associated nonincendive field wiring apparatus or associated apparatus.

Class II, III installation

DIP for Class II and III, Div. 1, Group E, F, G
Hazardous Location Installation (not for separate housing)

12. Installation of transmitter wiring according to NEC using threaded conduits or other wiring methods in accordance with articles 500 to 510.
13. Use a dust tight seal at the conduit entry.