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CSA/C 22.08.16

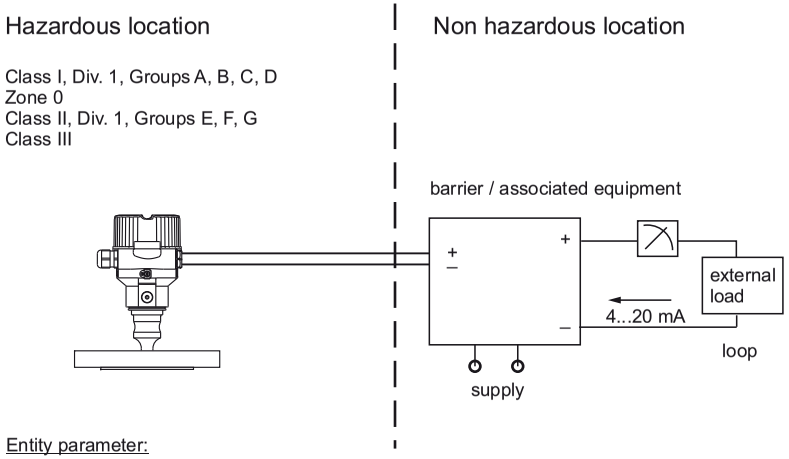
71361459

CSA Control Drawing
960009644 C

Cerabar M PMP51, PMP55
4-20 mA HART
(XP/IS)

Endress+Hauser

People for Process Automation



Entity parameter:

Ui / Vmax = 30 VDC
Ii / Imax = 300 mA
Pi / Pmax = 1 W
Ci ≤ 10 nF
Li = 0

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

Intrinsically safe Ex ia for Cl. I, Div. 1, Groups A, B, C, D, Cl. II, Div. 1, Groups E, F, G, Cl. III; Ex ia IIC T6
Hazardous Locations Installations

Division 1 Installation:

1. Control room equipment may not use or generate over 250 V.
2. Install per the Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISA RP 12.06.01.
3. For entity installations: Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: Voc ≤ Vmax, Isc ≤ Imax, Ca ≥ Ci + Ccable, La ≥ Li + Lcable.
   Transmitter entity parameters are as follows: Ui / Vmax = 30 VDC
   Ii / Imax = 300 mA
   Pi / Pmax = 1 W
   Ci ≤ 10 nF
   Li = 0
   for T-code see table
4. For System Installation:
   Use: CSA certified safety barriers as follows:
   (a) 28 V / 300 Ω + ground or
   (b) 28 V / 300 Ω + 28 V / diode or
   (c) 28 V / 300 Ω + 10 V / 50 Ω
5. Warning: Substitution of components may impair intrinsic safety.
   Avertissement : La substitution de composants peut compromettre la sécurité intrinsèque.
6. Intrinsic safety barrier manufacturer's installation drawing must be followed, when installing this equipment: The configuration of the intrinsic safety barrier(s) must be CSA approved.
7. Use supply wires suitable for 5 °C above surrounding.
   Utiliser des fils d'alimentation qui conviennent à une tempèrature de 5 °C au-dessus de la tempèrature ambiante.
8. Warning: Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings.

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 explosionproof protection the device is suitable for:

Explosionproof for Cl.I Div.1 Gp. BCD
Factory sealed, conduit seal is not required!

Max. supply voltage: 45 VDC
P ≤ 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.

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

Single Seal	Model	Limited to: MWP*	Limited to: Process Temperature**
	PMP51, PMP55	400 bar (5800 psi)	-40 °C...+100 °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! PMP55 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.