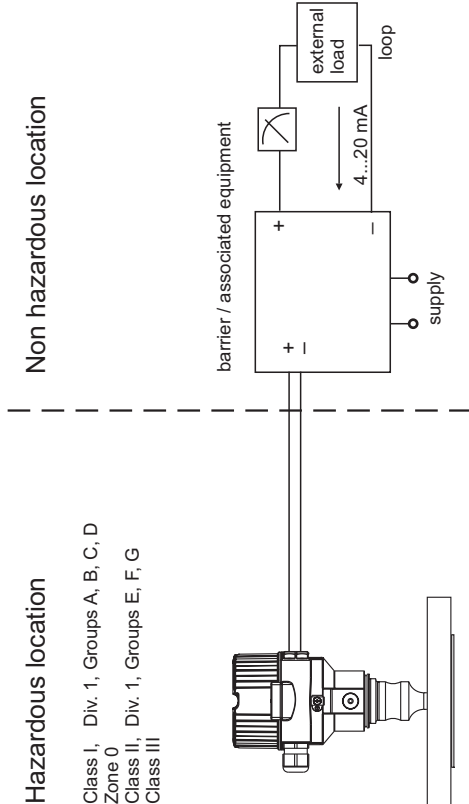




CSA Control Drawing

960009644 -

Cerabar M
PMP51, PMP55
4...20 mA HART (XP+IS)



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 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
 $P \leq 1.1 \text{ W}$

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.

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

Division 1 installation:

- Control room equipment may not use or generate over 250 V.
- Install per the Canadian Electrical Code or National Electrical Code (ANSI/NFPA70) and ISARP 12.06.01.
- For entity installations: Use CSA certified intrinsic safety barrier or other associated equipment that satisfy the following conditions: $V_{oc} \leq V_{max}$, $I_{sc} \leq I_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.

Transmitter entity parameters are as follows: $U_i / V_{max} = 30 \text{ VDC}$
 $I_i / I_{max} = 300 \text{ mA}$
 $P_i / P_{max} = 1 \text{ W}$
 $C_i \leq 10 \text{ nF}$
 $L_i = 0$
For T-code see table

4. For system installation:

Use: CSA certified safety barriers as follows:

- 28 V / 300 Ω + ground or
- 28 V / 300 Ω + 28 V / diode or
- 28 V / 300 Ω + 10 V / 50 Ω

Warning: Substitution of components may impair intrinsic safety.

- Avertissement: La substitution de composants peut compromettre la sécurité intrinsèque.
- 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.
- Use supply wires suitable for 5°C above surrounding.

Utiliser des fils d'alimentation qui conviennent à une température de 5°C au-dessus de la température ambiante.

Flammable fluid seal (CEC 2009, cl. 18-072):
This device does not rely on a single seal to allow passage of process fluid into the electrical or conduit system. Hence, CEC cl. 18-072 does not apply and a secondary seal is not required in the conduit.