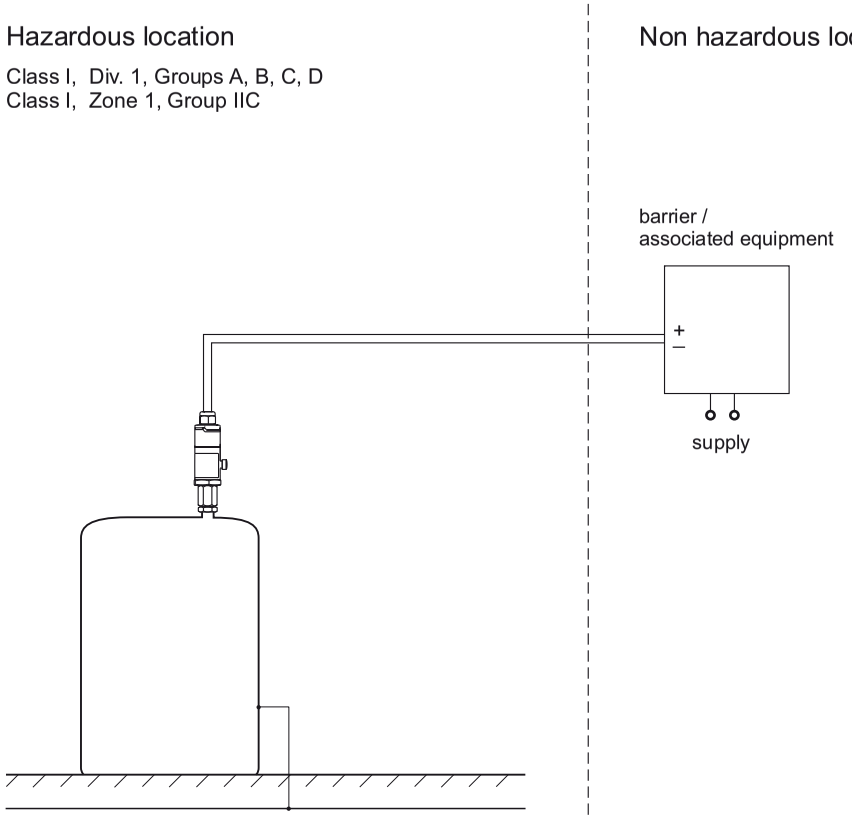
XA01322P-B/00/EN/02.17
CCS/FM10
CSA/B 25.01.17
71366055

CSA Control Drawing
XA01322P-B

Cerabar PMC21, PMP21, PMP23
4...20 mA (IS)

Endress+Hauser
People for Process Automation



Entity parameter: U_i / V_{max} = 30 VDC
I_i / I_{max} = 100 mA
P_i / P_{max} = 0.8 W
C_i ≤ 11.6 nF
L_i = 0

Table: Permissible ambient temperatures and temperature codes

	Permissible ambient temperature	
Temperature code	Pressure transmitter	Sensor
T4	–50...+70°C	PMC21: –25...+100°C PMP21: –40...+100°C PMP23: –10...+100°C

Intrinsically safe for Cl. I, Div. 1, Groups A, B, C, D;
and Cl. I, Zone 1, Ex ia IIC T4, AEx ia IIC T4

Hazardous location 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) as applicable for the country in use.
3. For entity installations: Use approved (for the country in use) intrinsic safety barrier or other certified associated equipment that satisfy the following conditions:
   U_o (V_{oc}) ≤ U_i (V_{max}), I_o (I_{sc}) ≤ I_i (I_{max}), C_o (C_a) ≥ C_i + C_{cable}, L_o (L_a) ≥ L_i + L_{cable}.
   Transmitter entity parameters are as follows: U_i / V_{max} = 30 VDC
   I_i / I_{max} = 100 mA
   P_i / P_{max} = 0.8 W
   C_i ≤ 11.6 nF
   L_i = 0
   for T-code see table
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 barrier(s) must be approved (for the country in use).
6. Use supply wires suitable for 5°C above surrounding.
7. Transmitter must have the same ground potential (e.g. transmitter housing and sensor housing all mounted to the same metal structure).
   If potential equalisation can not be achieved by the installation, the devices must be interconnected with a suitable bonding conductor at the same potential as the supply.

Nonincendive Field Wiring (NIFW) for Cl. I, Div. 2, Groups A, B, C, D

1. The Nonincendive Field Wiring circuit concept allows 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 the following conditions are met:
   V_{max} ≥ V_{oc} or V_t, C_a ≥ C_i + C_{cable}, L_a ≥ L_i + L_{cable}.
2. For transmitter parameters: → above clause 3, "Connection parameter".
3. The transmitter provides a current controlled circuit; therefore, the parameter I_{max} is not required and need not to be aligned with I_{sc} of the associated nonincendive field wiring apparatus or associated apparatus.
4. Install per National Electrical Code (NFPA 70) or Canadian Electrical Code, Part (C22.1), as applicable.
5. Warning: Substitution of components may impair suitabillity for Class I, Div. 2.
6. Always follow the installation drawing provided by the associated apparatus manufacturer. The configuration of the associated apparatus must be approved for the country in use.