XA01321P-A/00/EN/01.14
CCS/FM10
FM/A 28.11.14

71304098

FM Control Drawing
XA01321P-A

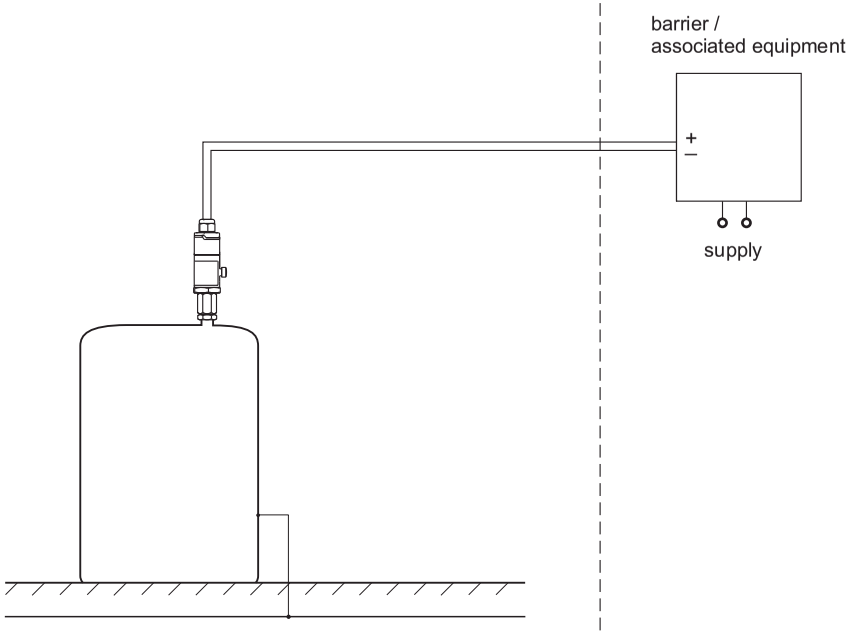
Cerabar PMC21, PMP21, PMP23
4...20 mA (IS)

Endress+Hauser
People for Process Automation

Hazardous location

IS Cl. I, Div. 1, Groups A, B, C, D T4
Cl. I, Zone 0 AEx/Ex ia IIC T4

Non hazardous location



Entity parameter: Ui / Vmax = 30 VDC
Ii / Imax = 100 mA
Pi / Pmax = 0.8 W
Ci ≤ 11.6 nF
Li = 0

Table: Permissible ambient temperatures and temperature codes

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

Intrinsically safe (entity) for Cl. I, Div. 1, Groups A, B, C, D AEx/Ex ia IIC T4

Hazardous location installation

1. Control room equipment may not use or generate over 250 V.
2. Installation should be in accordance with National Electrical Code (ANSI/NFPA70) or Canadian Electrical Code, Part I 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:
   Uo (Voc) ≤ Ui (Vmax), Io (Isc) ≤ Ii (Imax), Co (Ca) ≥ Ci + Ccable, Lo (La) ≥ Li + Lcable.
   Transmitter entity parameters are as follows: Ui / Vmax = 30 VDC
   Ii / Imax = 100 mA
   Pi / Pmax = 0.8 W
   Ci ≤ 11.6 nF
   Li = 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.