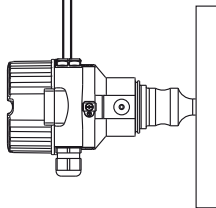
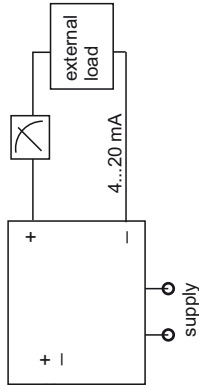


Hazardous location

Class I, Div. 1, 2, Groups A, B, C, D
 Class I, Zone 0, IIC
 AEx ia IIC T6
 Class II, Div. 1, 2, Groups E, F, G
 Class III



Any FM approved barrier / associated equipment



Non hazardous location

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

- Control room equipment may not use or generate over 250 V.
- Use Factory Mutual Entity-approved intrinsic safety barrier with V_{oc} or $V_t \leq V_{max}$, I_{sc} or $I_t \leq I_{max}$, $C_a \geq C_i + C_{cable}$, $L_a \geq L_i + L_{cable}$.
 Barrier must be incapable of delivering more than 1 Watt to a matched load.
 Transmitter entity parameters are as follows: $V_{max} = 30$ VDC
 $I_{max} = 300$ mA
 $C_i \leq 10$ nF
 $L_i = 0$
 for T-code see table
- Installation should be in accordance with ANSI/ISA RP 12.06.01 "Installation of intrinsically safe systems for hazardous (classified) locations" and the National Electrical Code (ANSI/NFPA 70).
- Warning: Substitution of Components may impair intrinsic safety.
- 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.
- Use supply wires suitable for 5°C above surrounding ambient.
- Avoid electrostatic charging of plastic surfaces, plastic process connections or coatings.

Table: Permissible ambient temperature and temperature code:

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

option for T_{a,min}: -50°C

Entity parameter:

$V_{max} = 30$ VDC
 $I_{max} = 300$ mA
 $P_{max} = 1$ W
 $C_i \leq 10$ nF
 $L_i = 0$

Areas of application

The compact instruments are suitable for use in areas subject to explosion caused by gases, vapours or mists.

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. ABCD
 Conduit seal is not required!

Max. supply voltage:
 45 VDC
 $P \leq 1,1$ W

Ambient temperature range: -40°C...+75°C (optional T_{a,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 FM Certified as Single Seal per ANSI/ISA 12.27.01 as tabulated below; therefore installation of external secondary seals is not required.

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

* 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.

