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Pressure Transmitter PCE-DMU 40

Pressure Transmitter to 600 Bar / various connections / 0/4 ... 20 mA or 0 ... 10 V output / Stainless steel membrane

The pressure transducer PCE-DMU 40 can be used for relative and absolute pressure measurements. The pressure transmitter can be used for gases, water as well as fuels and oils. Its metallic stainless steel 1.4435 membrane provides good corrosion resistance in many industrial processes. The modular design of the pressure transmitter allows a combination of process connections, pressure ranges and electrical connection variants and therefore meets almost all requirements of industrial applications. The pressure transmitter has an accuracy of 0.25% of the measuring range. Stainless steel is used as the separating membrane.

- 2 or 3 conductor output
- 0/4 ... 20 mA or 0 ... 10 V (selectable)
- Smallest measuring range 0 ... 100 mBar
- Maximum measuring range 0 ... 600 bar
- 0.25% Accuracy of the measuring range
- Stainless steel diaphragm

Specifications:

Technical Specification Pressure Transmitter PCE-DMU 40

Nominal pressure relative in bar	-1 ... 0	0.1	0	0.16	0.25	0.4	0.6	1		1.6	2.5	4	6		
Nominal pressure absolute in bar	-	-		-	-	-	0.4	0.6	1		1.6	2.5	4	6	
Overpressure in bar	5	0.5	1		1	2	5		5	10	10	20	40		
Burst pressure in bar	7.5	1.5	1.5		1.5	3	7.5		7.5	15	15	25	50		
Nominal pressure relative / absolute in bar		10		16	25	40	60		100		160	250	400	600	
Overpressure in bar		40		80	80	105	210		600		600	1000	1000	1000	
Burst pressure in bar		50		120	120	210	420		1000		1000	1250	1250	1800	
Negative pressure	-1 ... 0 Bar; Overload: 4 Bar; Burst pressure: 7 Bar														
Vacuum resistance	P> 1 bar: unrestricted														
Output signal and power supply	2-wire 4 ... 20 mA: 8 ... 32 V DC 3-wire 0 ... 20 mA: 14 ... 30 V DC 3-wire 0 ... 10 V: 14 ... 30 V DC														
Load	2-wire : [(UB – UB min) / 0.02 A] Ω 3-wire current: 500 Ω 3 wire voltage: 10 kΩ														

General technical data

Accuracy	± 0.25 % FSO
Long-term stability	< ±0.1 % FSO
Response time	2-wire : <10 ms 3-wire : < 3 ms
Media	Fuels, oils oxygen water

Temperature ranges	Medium: -40 ... 125 °C Environment: -40 ... 85 °C Storage: -40 ... 100 °C
Pressure connection / housing	Stainless steel 1.4404
Seal	FKM
Diaphragm	Stainless steel 1.4435
Media contacting parts	Pressure connection, seals, separating diaphragm

Delivery scope:

1 x Pressure transducer PCE-DMU 40