

Digital Pressure Transmitter



measuring
•
monitoring
•
analyzing

PDA



PDA-25
PDA-35

PDA-15

- Measuring Range: -30...0" Hg to 0...5800 PSI or -1...0 bar to 0...400 bar
- Max. Temperature: 176 °F
- Accuracy: $\pm 0.5\%$ of Full Scale ($\pm 1.0\%$ of Full Scale for Ranges ≤ 30 PSI)
- Housing / Fitting Material: Stainless Steel
- Connection: $\frac{1}{4}$ " NPT, $\frac{1}{2}$ " NPT, G $\frac{1}{4}$, or G $\frac{1}{2}$



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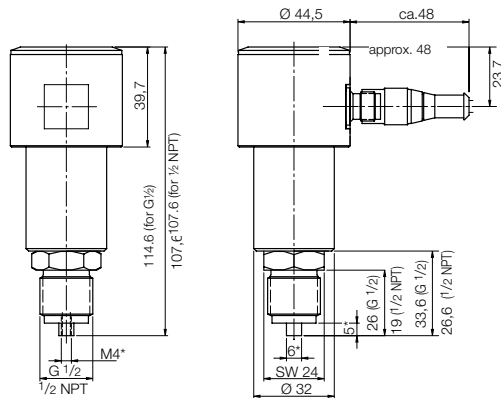


Digital Pressure Transmitter Model PDA

Description

The KOBOLD pressure sensor, model PDA, is a cost effective electronic pressure transmitter with digital indication of actual pressure. An analog output of 0(4)-20 mA is available for remote transmission of the measured value. A switch output is also available. A piezoresistive sensor is used and the PDA offers high switching accuracy. Long term stability, repeatability, and a compact, rugged design makes the PDA an ideal sensor for use in many OEM applications. Common applications include: compressor monitoring, installations in the machinery industry, and pumps.

Dimensions (mm)



*No Nipple on NPT Thread
(1/4" male connection available as option)

Technical Details

Housing:	303 Stainless Steel
Process Connection:	1/4" or 1/2" NPT 316 L Stainless Steel Option G 1/4 or G 1/2 Male (Others on Request)
Gasket:	FKM (Option: EPDM)
Sensor Element:	Piezoresistive Ceramic Cell
Indication:	3-digit LED, Height 7 mm
Resolution:	Max. 0.2 PSI (Depending on Measuring Range and Measured Value)
Max. Media Temp.:	-4 ... 176 °F
Max. Ambient Temp.:	-4 ... 176 °F
Max. Over Pressure:	Up to 870 PSI: 3x From 1450 PSI: 2x the Range 5800 PSI: 1.5x the Range
Supply Voltage:	24 V _{DC} ± 20 %
Power Consumption:	Approx. 100 mA (without Switching Output)
Electrical Connection:	M12x1 Plug
Standard Settings:	Programmable via 3 Buttons (Switching Point, Hysteresis, 0-20 mA or 4-20 mA, Start Point / End Point (Current), Filter, Zero (Tare), Security Code)
Over/Under Range:	On LED Display
Load:	Max. 500 Ω
Switching Option:	1x PNP or NPN Semiconductor, Max. 300 mA, Short-circuit Proof
Contact:	N/O or N/C, Programmable
Output Indicator:	1 LED
ON/OFF-switch. Delay:	0.5 ... 99.5 s (Separately Adjustable)
Response Time:	0.5 s
Accuracy:	± 0.5 % of f. s. (± 1.0 % of f. s. for Measuring Range: ≤ 30 PSI)
Protection:	IP 65

Order Details (Example: PDA-15 3 N2 P065)

Model	Output	Electrical Connection	Process Connection	Measuring Range (barG)	Measuring Range (PSIG)
PDA-	..15.. = Standard 0(4)-20 mA	..3.. = Plug M12x1	..N2.. = 1/4" NPT	..C315 = -1...0 ..B025 = 0...1 ..B035 = 0...1.6 ..B045 = 0...2.5 ..B055 = 0...4 ..B065 = 0...6 ..B075 = 0...10 ..B085 = 0...16 ..A095 = 0...25 ..A105 = 0...40 ..A115 = 0...60 ..A125 = 0...100 ..A135 = 0...160 ..A145 = 0...250 ..A155 = 0...400	..H315 = -30...0 in. Hg ..P025 = 0...15 ..P045 = 0...30 ..P055 = 0...50 ..P065 = 0...100 ..P075 = 0...150 ..P085 = 0...200 ..P095 = 0...350 ..P105 = 0...600 ..P115 = 0...1000 ..P125 = 0...1450 ..P135 = 0...2300 ..P145 = 0...3600 ..P155 = 0...5800 ..E = Custom*
	..25.. = 0(4)-20 mA, PNP Switch Output		..N4.. = 1/2" NPT	..B065 = 0...6 ..B075 = 0...10 ..B085 = 0...16 ..A095 = 0...25 ..A105 = 0...40 ..A115 = 0...60 ..A125 = 0...100 ..A135 = 0...160 ..A145 = 0...250 ..A155 = 0...400	..P065 = 0...100 ..P075 = 0...150 ..P085 = 0...200 ..P095 = 0...350 ..P105 = 0...600 ..P115 = 0...1000 ..P125 = 0...1450 ..P135 = 0...2300 ..P145 = 0...3600 ..P155 = 0...5800 ..E = Custom*
	..35.. = 0(4)-20 mA, NPN Switch Output		..R2.. = G 1/4	..A095 = 0...25 ..A105 = 0...40 ..A115 = 0...60 ..A125 = 0...100 ..A135 = 0...160 ..A145 = 0...250 ..A155 = 0...400	..P105 = 0...600 ..P115 = 0...1000 ..P125 = 0...1450 ..P135 = 0...2300 ..P145 = 0...3600 ..P155 = 0...5800 ..E = Custom*
			..R4.. = G 1/2		

Accessory: Mating Electrical Cable

*Please specify custom range as a note on your order

Description	Item #
M12 Micro-DC, 4-pin 6 foot Cable	807.037
M12 Micro-DC, 4-pin 16 foot Cable	807.037/5M