

GENERAL

ALIADP ADP9000PE series is a digital differential pressure transmitter designed for industrial pressure measurement applications.

The ADP9000PE can be configured to provide integrated solutions for a broad range of pressure and flow measurement applications.

FEATURES

- Updating time of output current in 200 ms
- Improved performance, increased accuracy and greater stability
- Two years stability of 0.2%
- 0.075% accuracy
- Parameter setting by keypad directly
- 4-20 mA output plus direct digital HART communication
- Automatic zero calibration by press-button
- Explosion proof and weather proof housing
- Flow display is available

STANDARD SPECIFICATION

- Process Fluid : Liquid, Gas or Vapor
- Application : Differential Pressure, Gauge Pressure, Absolute Pressure
- Measuring Range : 0 - 0.16 kPa ~ 0 - 1.0 kPa (Minimum)
: 0 - 4.0 MPa ~ 0 - 20.0 MPa (Maximum)
- Turndown Ratio : 100 : 1
- Accuracy : +/- 0.075% of span
- Stability : +/- 0.15% of URL for 2 years
- Working Temperature : -25 to +95 °C
- Max. Pressure : 40 MPa
- Material
 - Flange/Adapter : Stainless Steel 304 / Stainless Steel 316
 - Drains/Vents : Stainless Steel 304 / Stainless Steel 316
 - Diaphragm : Stainless Steel 316L / Hastelloy B / Hastelloy C / Monel / Tantalum
 - Wetted O-Ring : Buna N / Viton / PTFE
 - Bolts & Nuts : Carbon Steel / Stainless Steel 316
 - Mounting Bracket : Carbon steel / Stainless Steel 304 / 316
 - Name / Tag Plate : Stainless Steel 304 / Stainless Steel 316
 - Converter Housing : Low copper cast aluminum alloy with polyurethane, light blue paint
 - Fill Fluid : Silicone / Fluorine Oil
- Protection Class : IP67 (Standard)
: Intrinsically Safe EEx ia IIC T5 (Standard)
: Explosion proof Ex D IIB T5



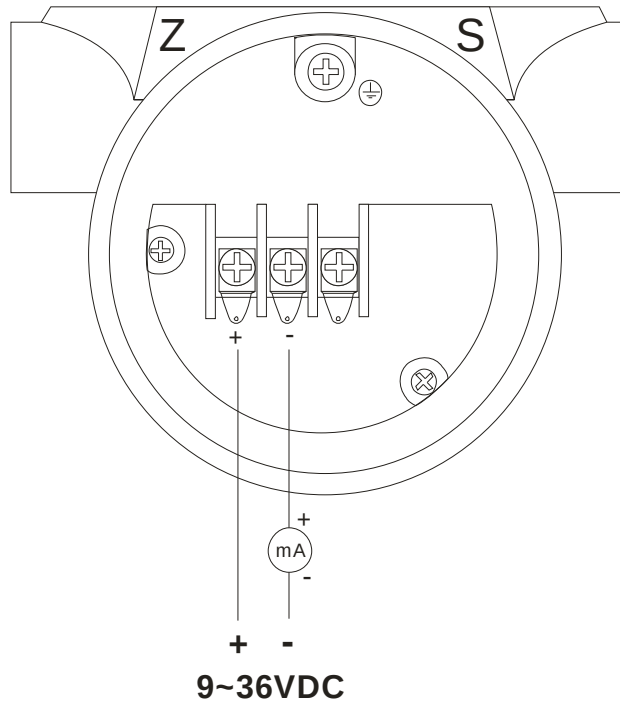
- Display : 5 Digits programmable & 0-100% Bargraph
Flow rate : 5 digit
- Display Unit : Standard 22 different engineering unit
5 Digits programmable for special unit
- Keypad : 3 internal keys for programming and output setting
- Current Output : 4 - 20 mA 2 wires with Hart signal (Compatible)
Load : $R_{ohm} = (V_{dc} - 9) * 50$
- Power Supply : 9 - 36 VDC
- Damping : 0 - 32 seconds
- Response Time : 100 mS
- Mounting : Bracket on 2" Pipe
- Humidity Limit : 0 to 100% Relative Humidity
- Zero Calibration : Automatic zero calibration by press-button
- Cable Entry : M20 Conduit Threads / 1/2" NPT (Female)
- Temperature Effect : +/- 0.18% ~ +/- 0.5% of span per 20 °C
- Vibration Effect : +/- 0.05% of URL per g to 200 Hz in any axis
- EMI/RFI Effect : Follow SAMA PMC 33.1 from 20 to 1000 MHz and for field strengths up to 30 V/m
- Process Connection : 1/4" - 18 NPT
: 1/2" - 14 NPT (with adapter)
- Ambient Temperature : -25 to +80 °C
- Dimensions : 102 mm (W) * 188 mm (H) * 130 mm (D)
- Weight : 3.5 Kg
- Option : Ambient Temperature Inspection



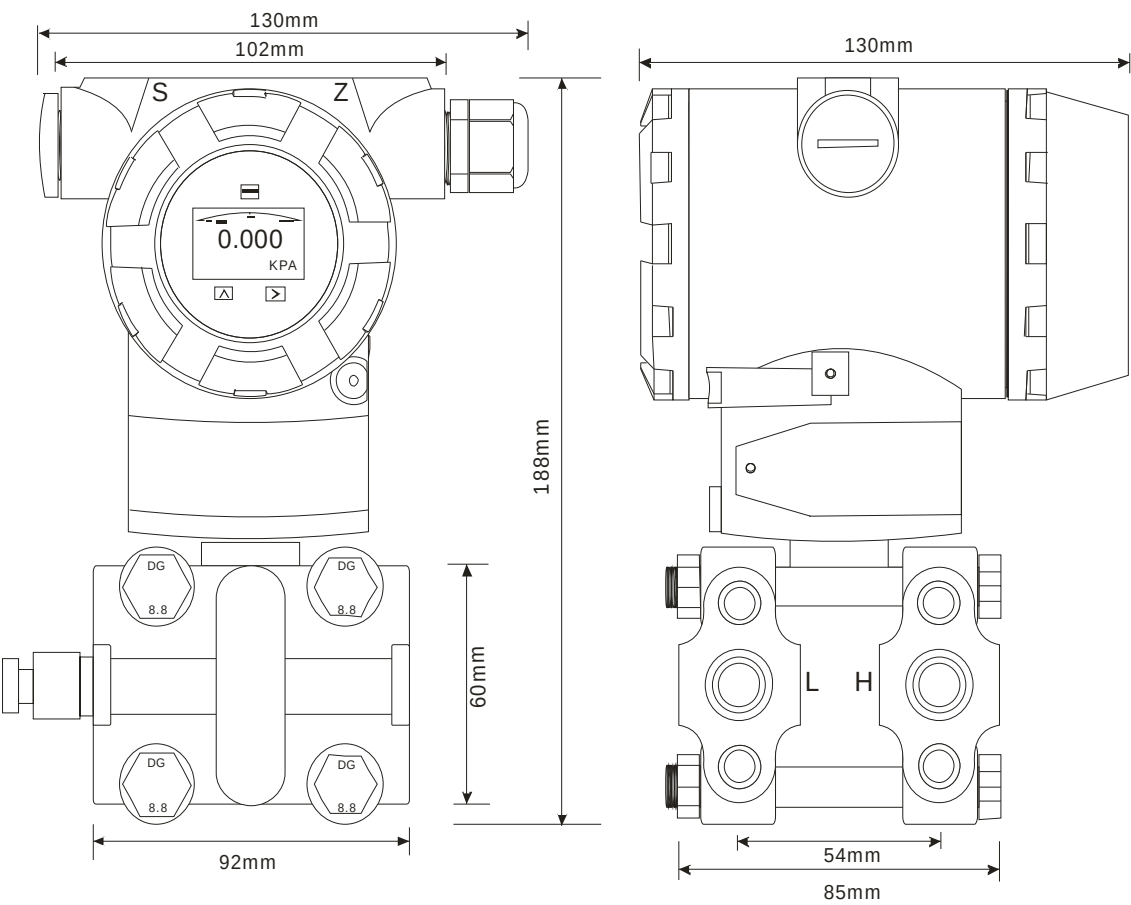
MEASURING RANGE

Range Code	Pressure Range				Transmitter		
	Low Range	High Range	Low Range	High Range	Differential Pressure	Gauge Pressure	Absolute Pressure
2	0 - 0.16 kPa	0 - 1.0 kPa	0 - 16.32 mmH ₂ O	0 - 102.0 mmH ₂ O	◆	◆	
	0 - 1.6 mbar	0 - 10 mbar	0 - 0.6423 InH ₂ O	0 - 4.015 InH ₂ O			
	0 - 0.023 psi	0 - 0.145 psi	0 - 0.001 Kg/cm ²	0 - 0.010 Kg/cm ²			
3	0 - 1.0 kPa	0 - 6.0 kPa	0 - 102.0 mmH ₂ O	0 - 611.82 mmH ₂ O	◆	◆	
	0 - 10 mbar	0 - 60 mbar	0 - 4.015 InH ₂ O	0 - 24.088 InH ₂ O			
	0 - 0.145 psi	0 - 0.87 psi	0 - 0.010 Kg/cm ²	0 - 0.061 Kg/cm ²			
4	0 - 6.0 kPa	0 - 40 kPa	0 - 611.82 mmH ₂ O	0 - 4078 mmH ₂ O	◆	◆	◆
	0 - 60 mbar	0 - 400 mbar	0 - 24.088 InH ₂ O	0 - 160.6 InH ₂ O			
	0 - 0.87 psi	0 - 5.802 psi	0 - 0.061 Kg/cm ²	0 - 0.408 Kg/cm ²			
5	0 - 40 kPa	0 - 200 kPa	0 - 4.079 MH ₂ O	0 - 20.39 MH ₂ O	◆	◆	◆
	0 - 400 mbar	0 - 2000 mbar	0 - 160.6 InH ₂ O	0 - 802.9 InH ₂ O			
	0 - 5.802 psi	0 - 29.0 psi	0 - 0.408 Kg/cm ²	0 - 2.039 Kg/cm ²			
6	0 - 160 kPa	0 - 1000 kPa	0 - 16.32 MH ₂ O	0 - 101.97 MH ₂ O	◆	◆	◆
	0 - 1.6 bar	0 - 10 bar	0 - 642.3 InH ₂ O	0 - 4014 InH ₂ O			
	0 - 23.21 psi	0 - 145 psi	0 - 1.632 Kg/cm ²	0 - 10.197 Kg/cm ²			
7	0 - 400 kPa	0 - 2500 kPa	0 - 40.79 MH ₂ O	0 - 254.9 MH ₂ O	◆	◆	◆
	0 - 4.0 bar	0 - 25 bar	0 - 1605 InH ₂ O	0 - 10036 InH ₂ O			
	0 - 58.02 psi	0 - 362.6 psi	0 - 4.079 Kg/cm ²	0 - 25.49 Kg/cm ²			
8	0 - 1.6 MPa	0 - 8.0 MPa	0 - 163.1 MH ₂ O	0 - 815.76 MH ₂ O		◆	
	0 - 16 bar	0 - 80 bar	0 - 6423.4 InH ₂ O	0 - 32117 InH ₂ O			
	0 - 232.1 psi	0 - 1160.3 psi	0 - 16.32 Kg/cm ²	0 - 81.578 Kg/cm ²			
9	0 - 4.0 MPa	0 - 20 MPa	0 - 407.9 MH ₂ O	0 - 2039.4 MH ₂ O		◆	
	0 - 40 bar	0 - 200 bar	0 - 16059 InH ₂ O	0 - 80292.6 InH ₂ O			
	0 - 580.2 psi	0 - 2901 psi	0 - 40.79 Kg/cm ²	0 - 203.94 Kg/cm ²			

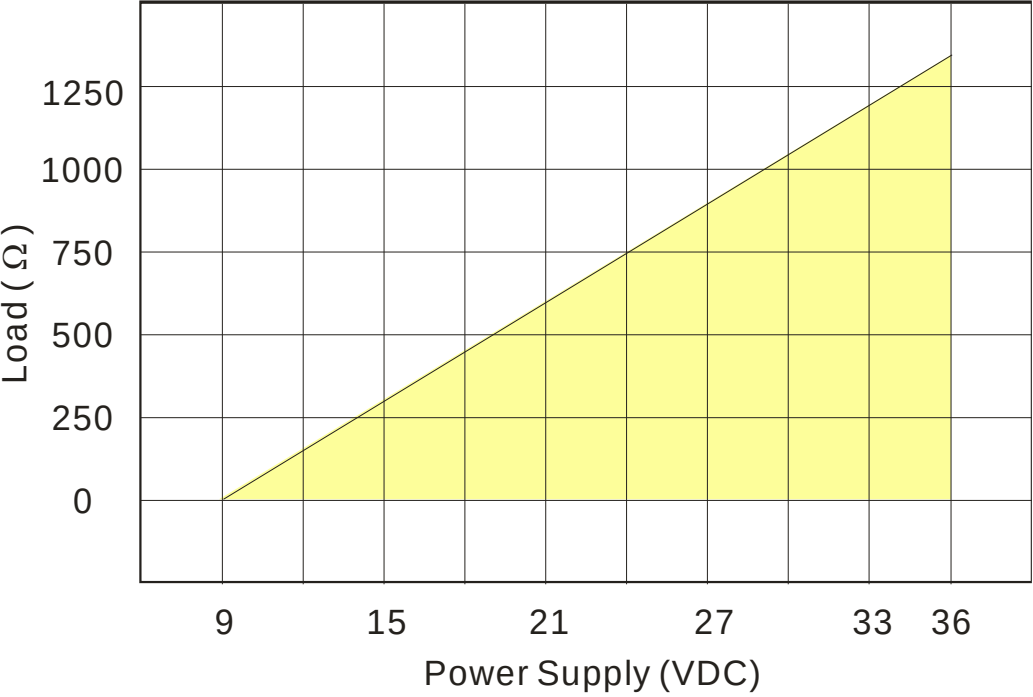
WIRING DIAGRAM



DIMENSIONS



Supply Voltage VS Loop Load



MODEL SELECTION GUIDE

ADP9000PE Series													
Example:ADP9000PE-D3-CNS-6NF-NNN-EX/S6													
ADP9000PE-	X	X	-X	X	X	-X	X	X	-X	X	X	-XX	Description
Type	D												Differential Pressure Transmitter
	G												Gauge Pressure Transmitter
	A												Absolute Pressure Transmitter
Pressure Range	2	0 - 0.16 (0.01) kPa ... 0 - 1.0 kPa (Type D/G)											
	3	0 - 1.0 (0.06) kPa ... 0 - 6.0 kPa (Type D/G)											
	4	0 - 6.0 (0.4) kPa ... 0 - 40 kPa											
	5	0 - 40 (2.0) kPa ... 0 - 200 kPa											
	6	0 - 160 (10.0) kPa ... 0 - 1000 kPa											
	7	0 - 400 (25.0) kPa ... 0 - 2500 kPa											
	8	0 - 1.6 (0.08) MPa ... 0 - 8.0 MPa (Type G)											
	9	0 - 4.0 (0.20) MPa ... 0 - 20 MPa (Type G)											
Diaphragm Material	-N	Stainless Steel 316L											
	-B	Hastelloy B											
	-C	Hastelloy C											
	-P	Monel											
	-T	Tantalum											
Process Flanges, Drain/Vent valve Material	N	Stainless Steel 304											
	S	Stainless Steel 316											
Bolts / Nuts Material	N	Carbon Steel											
	S	Stainless Steel 316											
Mounting Bracket Material	-N	Carbon Steel											
	-4	Stainless Steel 304											
	-6	Stainless Steel 316											
Wetted O-ring Material	N	Buna-N											
	V	Viton											
	P	PTFE											
Fill Fluid	N	Silicone											
	F	Fluorine											
Process Connection	-N	1/4" - 18 NPT											
	-A	1/2" - 14 NPT (with Adapter)											
	-Z	Other											
Cable Entry	N	M20 Conduit Threads											
	P	1/2" NPT (Female)											
	Z	Other											
Maximum Pressure Limit	N	4 MPa											
	1	6.4 MPa											
	2	16 MPa											
	3	40 MPa											
Option	-NN	None											
	-EX	Explosion proof Ex D IIB T5											
	-S6	Stainless Steel 316 Name Plate and Tag Plate											
	-HT	Hart Signal (Compatible)											
	-RS	Customized range setting											
	-RC	Customized range calibration											
	-ZZ	Others											
	-AM	Ambient Temperature Inspection											