

GENERAL

ALIADP ADP9000 series is a digital differential pressure transmitter designed for industrial pressure measurement applications.

The ADP9000 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

STANDARD SPECIFICATION

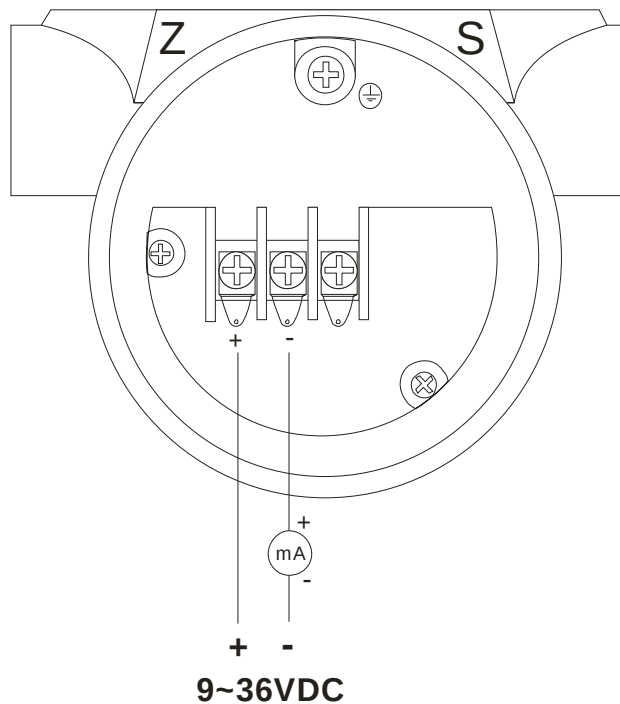
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|-----------------------|--|-----------------------|--|
| ● Process Fluid | : Liquid, Gas or Vapor | ● Display | : 5 Digits programmable & 0-100% Bargraph |
| ● Application | : Differential Pressure, Gauge Pressure, Absolute Pressure | ● Display Unit | : Standard 22 different engineering unit
5 Digits programmable for special unit |
| ● Measuring Range | : 0 - 0.125" H ₂ O ... 0 - 6" H ₂ O (Minimum)
: 0 - 580 PSIG ... 0 - 25.0 PSIG(Maximum) | ● Keypad | : 3 internal keys for programming and output setting |
| ● Turndown Ratio | : 100 : 1 | ● Current Output | : 4 - 20 mA 2 wires
with Hart signal (Compatible)
Load : Rohm=(Vdc-9)*50 |
| ● Accuracy | : +/- 0.075% of span | ● Power Supply | : 9 - 36 VDC |
| ● Stability | : +/-0.15% of URL for 2 years | ● Damping | : 0 - 32 seconds |
| ● Working Temperature | : -13 ... +203 °F | ● Response Time | : 200 mS |
| ● Max. Pressure | : 5801 PSIG | ● Mounting | : Bracket on 2" Pipe |
| ● Material | | ● Humidity Limit | : 0 to 100% Relative Humidity |
| Flange/Adapter | : Stainless Steel 304 / Stainless Steel 316 | ● Turn on Time | : 2 Seconds with minimum damping |
| Drains/Vents | : Stainless Steel 304 / Stainless Steel 316 | ● Zero Calibration | : Automatic zero calibration by press-button |
| Diaphragm | : Stainless Steel 316L / Hastelloy B / Hastelloy C / Monel / Tantalum | ● Cable Entry | : M20 Conduit Threads / 1/2" NPT (Female) |
| Wetted O-Ring | : Buna N / Viton / PTFE | ● Temperature Effect | : +/-0.18% of span per 77 °F |
| Bolts & Nuts | : Carbon Steel / Stainless Steel 316 | ● Vibration Effect | : +/-0.05% of URL per g to 200 Hz in any axis |
| Mounting Bracket | : Carbon steel / Stainless Steel 304 / 316 | ● EMI/RFI Effect | : Follow SAMA PMC 33.1 from 20 to 1000 MHz and for field strengths up to 30 V/m |
| Name / Tag Plate | : Stainless Steel 304 / Stainless Steel 316 | ● Process Connection | : 1/4 - 18 NPT
: 1/2 - 14 NPT(with adapter) |
| Converter Housing | : Low copper cast aluminum alloy with polyurethane, light blue paint | ● Ambient Temperature | : -13 ... +176 °F |
| Fill Fluid | : Silicone / Fluorine Oil | ● Dimensions | : 4" in (W)* 7.4" in (H)* 5" in (D)* |
| ● Protection Class | : IP67 (Standard)
: Intrinsically Safe EEx ia IIC T5 (Standard)
: Explosion proof Ex D IIB T5 | ● Weight | : 7.7 lb |



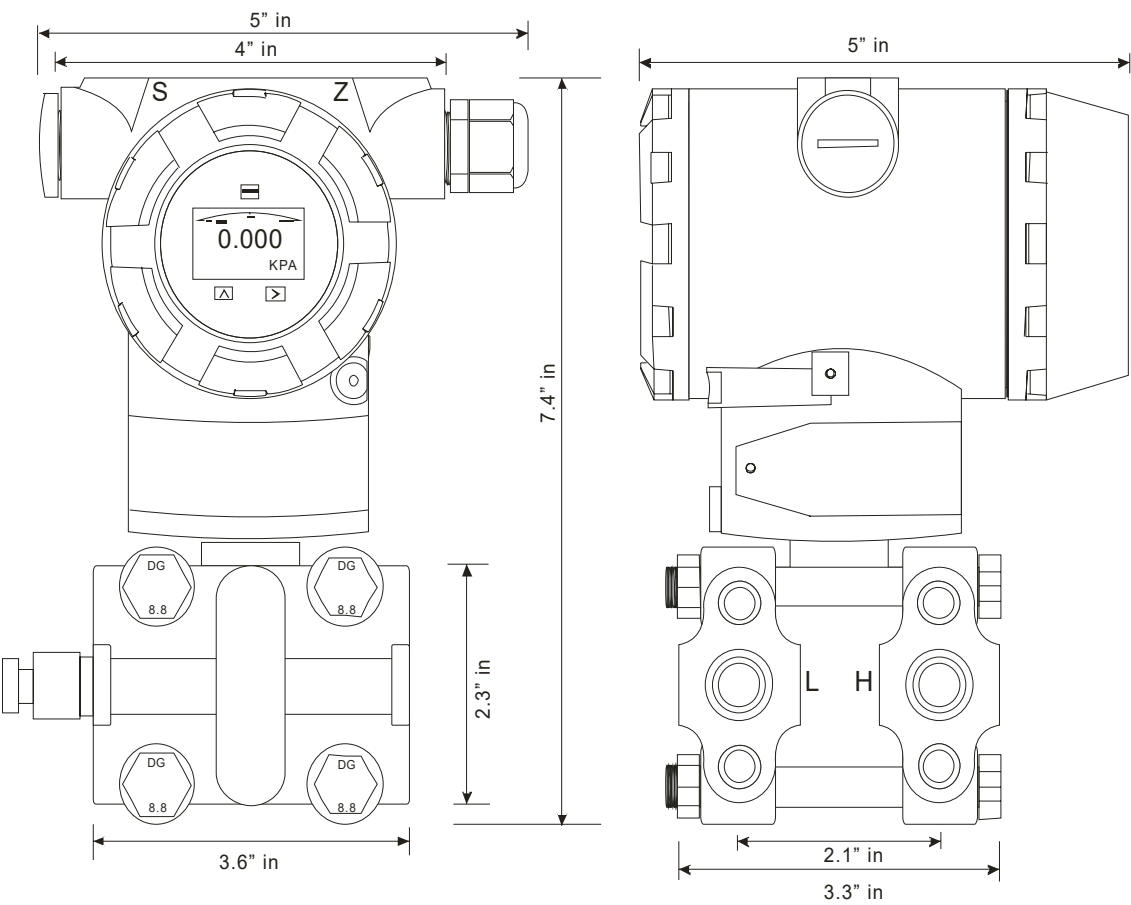
MEASURING RANGE

Range Code	Pressure Range				Transmitter		
	Low Range	High Range	Low Range	High Range	Differential Pressure	Gauge Pressure	Absolute Pressure
2	0 - 0.125 Kpa	0 - 1.5 Kpa	0 - 12.75 mmH2O	0 - 153.0 mmH2O	◆	◆	
	0 - 1.250 mbar	0 - 15 mbar	0 - 0.5018 InH2O	0 - 6.022 InH2O			
	0 - 0.018 psi	0 - 0.218 psi	0 - 0.001 Kg/cm2	0 - 0.015 Kg/cm2			
3	0 - 1.3 Kpa	0 - 7.5 Kpa	0 - 132.6 mmH2O	0 - 764.8 mmH2O	◆	◆	
	0 - 13 mbar	0 - 75 mbar	0 - 5.219 InH2O	0 - 30.11 InH2O			
	0 - 0.189 psi	0 - 1.088 psi	0 - 0.013 Kg/cm2	0 - 0.076 Kg/cm2			
4	0 - 6.2 Kpa	0 - 37 Kpa	0 - 632.2 mmH2O	0 - 3773 mmH2O	◆	◆	◆
	0 - 62 mbar	0 - 370 mbar	0 - 24.89 InH2O	0 - 148.5 InH2O			
	0 - 0.899 psi	0 - 5.366 psi	0 - 0.063 Kg/cm2	0 - 0.377 Kg/cm2			
5	0 - 30 Kpa	0 - 180 Kpa	0 - 3.059 MH2O	0 - 18.35 MH2O	◆	◆	◆
	0 - 300 mbar	0 - 1800 mbar	0 - 120.4 InH2O	0 - 722.6 InH2O			
	0 - 4.351 psi	0 - 26.11 psi	0 - 0.306 Kg/cm2	0 - 1.835 Kg/cm2			
6	0 - 117 Kpa	0 - 690 Kpa	0 - 11.93 MH2O	0 - 70.36 MH2O	◆	◆	◆
	0 - 1.170 Bar	0 - 6.900 Bar	0 - 469.7 InH2O	0 - 2770 InH2O			
	0 - 16.97 psi	0 - 100.1 psi	0 - 1.193 Kg/cm2	0 - 7.036 Kg/cm2			
7	0 - 350 Kpa	0 - 2000 Kpa	0 - 35.69 MH2O	0 - 203.9 MH2O	◆	◆	◆
	0 - 3.5 Bar	0 - 20 Bar	0 - 1405 InH2O	0 - 8029 InH2O			
	0 - 50.76 psi	0 - 290.1 psi	0 - 3.569 Kg/cm2	0 - 20.39 Kg/cm2			
8	0 - 1.17 Mpa	0 - 6.8 Mpa	0 - 119.3 MH2O	0 - 693.4 MH2O	◆	◆	◆
	0 - 11.70 Bar	0 - 68 Bar	0 - 4697.1 InH2O	0 - 27299 InH2O			
	0 - 169.7 psi	0 - 986.3 psi	0 - 11.93 Kg/cm2	0 - 69.34 Kg/cm2			
9	0 - 4.0 Mpa	0 - 25 Mpa	0 - 407.9 MH2O	0 - 2549 MH2O	◆	◆	◆
	0 - 40 Bar	0 - 250 Bar	0 - 16059 InH2O	0 - 100366 InH2O			
	0 - 580.2 psi	0 - 3626 psi	0 - 40.79 Kg/cm2	0 - 254.9 Kg/cm2			

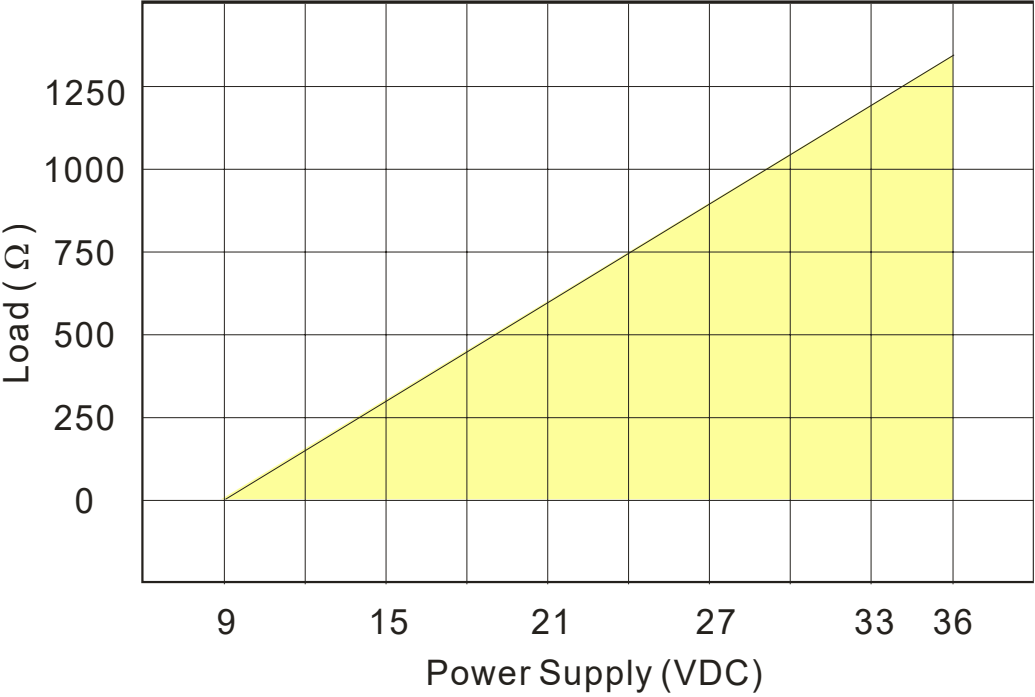
WIRING DIAGRAM



DIMENSIONS



Supply Voltage VS Loop Load



MODEL SELECTION GUIDE

ADP9000 Series													
Example:ADP9000-D3-CNS-6NF-NNN-EX/S6													
ADP9000-	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 - 0.125" H2O ... 0 - 6" H2O (Type D/G)											
	3	0 - 5" H2O ... 0 - 30" H2O (Type D/G)											
	4	0 - 24" H2O ... 0 - 148" H2O											
	5	0 - 120" H2O ... 0 - 722" H2O											
	6	0 - 469" H2O ... 0 - 2770" H2O											
	7	0 - 1405" H2O ... 0 - 8029" H2O											
	8	0 - 169 PSIG ... 0 - 986 PSIG											
	9	0 - 580 PSIG ... 0 - 3625 PSIG											
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	580 PSIG											
	1	928 PSIG											
	2	2320 PSIG											
	3	5801 PSIG											
Option	-NN	None											
	-EX	Explosion proof Ex D IIB T5											
	-S6	Stainless Steel 316 Name Plate and Tag Plate											
	-HT	Hart Signal (Compatible)											
	-ZZ	Others											