





ALP1000

Low Pressure Transmitter

FEATURES

- Low pressure measurement from 0-50 mbar
- Robust stainless steel construction for durability and reliability
- Low hysteresis and excellent longterm stability
- Ideal for low pressure fluid and gas applications





SPECIFICATIONS

The ALP1000 series now extends pressure sensor technology into very low-pressure applications, with operating ranges down to 0-50 mbar whilst still maintaining high performance. Offering a low cost solution for accurate measurement at low pressures, the LP1000 is designed for use with a wide variety of liquids and gases compatible with 316L stainless steel and nitrile (NPR).

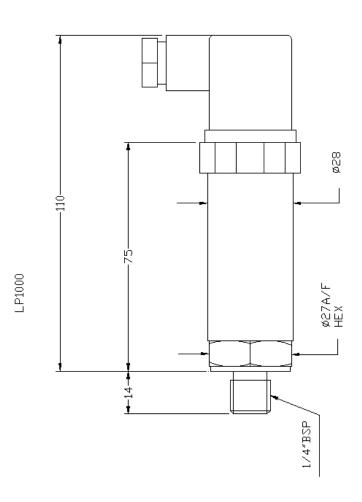
Typical applications include:

- Laboratory and test
- · Air & gas pressure monitoring
- Leak detection
- Low pressure liquid & hydrostatic pressure measurement





DIMENSIONS (in mm)



■ ELECTRICAL CONNECTIONS

	mA	VDC	
PIN No.	2 wire	3 wire	4 wire
1	+supply	common	-supply
2	4-20mA	+supply	+supply
3	N/C	+output	+output
+	to case	to case	-output





TECHNICAL DATA

Туре	ALP1000	ALP1001 / ALP1011	ALP1002 / ALP1012	ALP1003				
Sensor Technology	Isolated Piezoresistive Silicon							
Output Signal:	10 MV/V (typical 4 wire)	0-5 V (4 or 3 wire)	0-10 V (4 or 3 wire)	4-20 mA (2 wire)				
Supply Voltage:	10 VDC	13-30 VDC	13-30 VDC	13-36 VDC				
Pressure Reference:	Gauge or Absolute (limited range)							
Protection of Supply Voltage:	Protected agaisnt supply voltage reversal up to 50 V (amplified version)							
Standard Pressure Ranges (bar):	0-50 mbar; 0-100 mbar; 0-250 mbar; 0-500 mbar; 0-1000 mbar (other ranges available); Absolute ranges from 0-500 mbar							
Standard Pressure Ranges (psi):	0-0.75 psi; 0-1.5 psi; 0-3 psi; 0-4 psi; 0-5 psi; 0-6 psi; 0-7 psi; 0-15 psi; 0-15 psi (other ranges available)							
Overpressue Safety:	4x ranges for 50 mbar to 250 mbar; 3x for ranges 500 mbar to 1000 mbar							
Load Driving Capability:	4-20 mA: RL < [UB - 13V] / 20 mA (e.g. with supply voltage (UB) of 36V, max. load (RL) is 1150); $10mV/V$: n/a: 0-5V: max. load RL > 5K: $10 V$: max. load RL > $10K$							
Accuracy NLHR:	<+0.5 % of span BFSL							
Zero Offset and Span Tolerance:	+0.5 %FS at room temperature (LP1000:+5 %FS (approx.) adjustment with easy access trimming potentiometers on applified versions only							
Operating Ambient Temperature:	-20C to +85C (-4F to +185F)							
Operating Media Temperature:	-20C to +85C (-4F to +185F)							
Temperature Effects:	+3% FS total error band for -20C to +70C. Typical thermal zero and span coefficients +0.05 % FS/C							
Storage Temperature:	+5C to +40C (+41F to + 104F) recommended Best Practice							
Electromagetic Compatibility:	Emissions: EN6 1000-6-3: Immunity: EN6 1000-6-2: Certification: CE Marked							
Insulation Resistance:	> 100M @ 50 vdc							
Response time 10-90%:	1 mS							
Wetted Parts:	SAE 316 stainless steel and Nitrile NBR O-ring							
Pressure Media:	All fluids compatible with SAE 316 stainless steel and Nitrile NBR							
Pressure Connection:	1/4"BSP male (G1/4); 1/4" NPT male (G1/2); 1/2" NPT male (other options available)							
Electrical Connection:	Mating micro DIN socket EN175301-803 Form A (ex DIN43650) rated IP65 with PG9 cable entry (other options available)							
Net.wight (Kg):	0.3Kg							



TECHNICAL DATA

Output	Wires	Туре	Electrical Connection/Options	Pressure Range	Process Connection
10 mV/V	4	ALP1000			
	4	ALP1001			
0-5 V	3	ALP1011			
	4	ALP1002			
0-10 V	3	ALP1012			
4-20 Ma	2	ALP1003			
Electrical Connection					
DIN EN175301 plug and socket					
Cable outlet 1m screened			Α		
M12 connector			В		
Cable outlet 1m screened IP67 protection			С		
Pressure Range in Bar					
0-50 mbar (Gauge only)				0050	
0-100 mbar (Gauge only)				0100	
0-250 mbar (Gauge only)				0250	
0-500 mbar				0500	
0-500 mbar Absolute				500A	
0-1000 mbar				1000	
0-1000 mbar Absolute				01KA	
Process Connection					
1/4" BSP male (G1/4)					AB
1/2" BSP male (G1/2)					AC
1/4" NPT male					AM
1/2" NPT male					AN

For options not listed please contact the sales team

DISCLAIMER: We reserve the right to change specifications without prior notice. specifications without prior notice. All manufactured products are calibrated with precision calibration equipment that is traceable to national measurement standards.

Page 4/4

4/4

The information provided herein is to the best of our knowledge true and accurate, it is provided for guidance only. All specifications are subject to change without prior notification.

Order Number Example

ALP1003-0050AC