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Lopress[®]LP1000

LOW PRESSURE TRANSDUCER



DESCRIPTION

LP1000 series now extends the pressure sensor technology into very low-pressure applications, with operating ranges down to 0-50mbar whilst still maintaining high performance. The advanced sensor design provides very low hysteresis and excellent longterm stability not normally achievable when measuring very low pressure.

The LP1000 offers a low cost solution for accurate measurement of very low pressures and is specifically designed for use in media such as air, non-corrosive gases and various liquids compatible with silicon. The stainless steel housing, fluorosilicone seals and silicon sensing element enables the product to maintain accurate performance and provide extremely good durability

Available in pressure ranges from 0-50mbar to 0-1000mbar and with electrical outputs of 0-100mV, 0-5Vdc, 0-10Vdc and 4-20mA.

Applications include laboratory and test, air and gas pressure monitoring, leak detection, low pressure liquid and hydrostatic pressure measurements.

OUTPUT OPTIONS 0-100mV, 0-5Vdc, 0-10Vdc OR 4-20mA ACCURACY 0.5% NLHR POPUST STAINUESS STEEL

PRESSURE RANGES 0-50mbar

PIEZORESISTIVE SENSOR

TECHNOLOGY

TO 0-1000mbar

- ROBUST STAINLESS STEEL CONSTRUCTION
- WIDE OPERATING TEMPERATURE RANGE
- ZERO SPAN & ADJUSTMENT



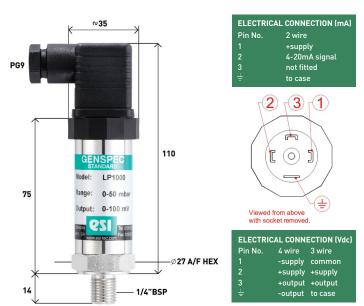


PRESSURE RANGES

0 to 50mbar through to 0 to 1000mbar, see table below for list of all standard pressure ranges.

Range (mbar)		Range (mbar)	Order Code
0-50 0-100	0050 0100	0-500 0-1000	0500 1000
0-250	0250		

DIMENSIONS (in mm)



ORDERING INFORMATION

	LP1000	ī	xxxx 	xx
Model				
Electrical Connector/Option				
Pressure Range - Bar				
Process Connection				

OUTPUT	Model No.			
0-100mV	LP1000			
0-5Vdc	L P1001			
0-10Vdc	LP1002			
4-20mA	LP1003			
ELECTRICAL CONNECTION/OPTION	Order Code			
DIN 43650 plug and socket	-			
Cable outlet 1 metre screened	А			
PROCESS CONNECTION	Order Code			
1/4" BSP male thread	AB			
1/2" BSP male thread	AC			
1/4" NPT male thread	AM			
EXAMPLE	Order Code			
Output signal 4-20mA	LP1003			
DIN43650 plug and socket	-			
Pressure range 0-100mbarg	0100			
Pressure connection 1/4" BSP male	AB			
Correct Part Number	LP1003-0100AB			
For options not listed contact sales team				

SPECIFICATION

PRESSURE REFERENCE

Gauge

OVERPRESSURE

Pressure can exceed rated range by the multiple shown below with no damage or change in calibration above ±0.5%FS. 4x for ranges 50mbar to 250mbar 3x for ranges 500bar to 1000mbar

OUTPUT SIGNAL

0-100mV [nominal] (4 wire non-amplified) Zero offset:±1mV/V, Span tolerance: ±30%FS0 0-5 Vdc, 0-10 Vdc (4 wire amplified) Zero Offset and Span Setting ±0.5%FS0 4-20mA (2 wire amplified) Zero Offset and Span Setting ±0.08mA

ZERO OFFSET AND SPAN TOLERANCE

±0.08mA ±5%FS adjustment with easy access trimming Potentiometers on amplified version only

SUPPLY VOLTAGE

Measured across supply terminals on connector plug 10Vdc for 0-100mV version 13-30Vdc for 0-5Vdc and 0-10Vdc versions 10-36Vdc for 4-20mA version

PROTECTION OF SUPPLY VOLTAGE

Protected against supply voltage reversal up to 50Vdc

LOAD DRIVING CAPABILITY (4-20mA version only)

Calculate Maximum load Rs=(Ub-13V)/20mA E.g. with supply voltage load of 36vdc, maximum load is 1150ohms.

ACCURACY (NON LINEARITY, HYSTERESIS & REPEATABILITY)

±0.50% FS Typical max. Best fit straight line.

PRESSURE MEDIA

All fluids compatible with 316 stainless steel, fluorosilicone and silicon.

OPERATING TEMPERATURE RANGE

Ambient/Media: -20°C to +85°C Storage: +5°C to +40°C

INSULATION RESISTANCE

100Mohm @50Vdc all electrical connection to case

PRESSURE CONNECTION

1/4"BSP male (others on request)

ELECTRICAL CONNECTION

Mating socket with screw terminal connections to DIN 43650 rated IP65.

DISCLAIMER : ESI Technology Ltd operates a policy of continuous product development. We reserve the right to change specification without prior notice. All products manufactured by ESI Technology Ltd are calibrated using precision calibration equipment with traceability to international standards.



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