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ESI - LP1000 - LOW PRESSURE SENSOR

LP1011B0050AB
0-5V (3 wire), 0..50 mbar, G1/4, M12



- Piezoresistive sensor technology for high performance
- Low pressure measurment from 50 mbar
- Low hysteresis and excellent long term stability
- Robust stainless steel construction for durability

PRODUCT DESCRIPTION

The ESI Technology LP1000 pressure sensor is designed for low pressure measurement applications whilst still maintaining high performance.

This pressure sensor provides has outstanding performance and gives excellent stability over a wide temperature range. The LP1000 starts from 0 - 50 mbar up to 0 to 500 mbar with a total of four standard pressure ranges, four options of outputs including 4-20mA and 0-10V and also four different electrical connections including a DIN connector and M12.

This sensor offers everything you need in a low pressure transducer including high accuracy, impressive over pressure safety, reliabilty and low temperature error.

Application examples

- Aerospace
- Gas monitoring
- Hydrostatic pressure measurement
- Laboratory and test
- Leak detection
- Process

TECHNICAL DATA

Ambient temperature	-20..85°C
Approvals	CE
Electrical connection	M12
EMC	EN61000-6-4, EN61000-6-2
Linearity	≤±0.5% BSFL
Material of wetted parts	Stainless steel 316
Media temperature	-20..85°C
Output	0-5V
Overpressure protection	0.2 bar
Pressure range max	0.05 bar
Pressure range min	0 bar

Pressure reference	Gauge
Process connection	G1/4
Sensor technology	Piezoresistive Silicon or Isolated Piezoresistive Silicon
Storage temperature	5..40°C
Supply voltage	13-30 V DC