**OEM Automatic Ltd**
Address: Whiteacres, Whetstone Leicester, LE8 6ZG
0116 284 9900 | Orders@oem.co.uk | www.oem.co.uk

# ESI - LP1000 - LOW PRESSURE SENSOR

LP1000-0500AC
10mV/V, 0..500 mbar, G1/2, DIN

- 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

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|---|---|
| **Ambient temperature** | -20..85°C |
| **Approvals** | CE |
| **Electrical connection** | DIN A 43650 |
| **EMC** | EN61000-6-4, EN61000-6-2 |
| **Linearity** | ≤±0.5% BSFL |
| **Material of wetted parts** | Stainless steel 316 |
| **Media temperature** | -20..85°C |
| **Output** | 0-10mV/V |
| **Overpressure protection** | 1.5 bar |
| **Pressure range max** | 0.5 bar |
| **Pressure range min** | 0 bar |

| | |
|---|---|
| **Pressure reference** | Gauge |
| **Process connection** | G1/2 |
| **Sensor technology** | Piezoresistive Silicon or Isolated Piezoresistive Silicon |
| **Storage temperature** | 5..40°C |
| **Supply voltage** | 10 V DC (5-15 V) |