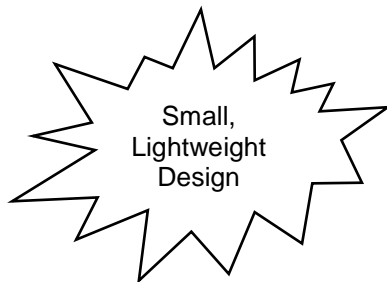
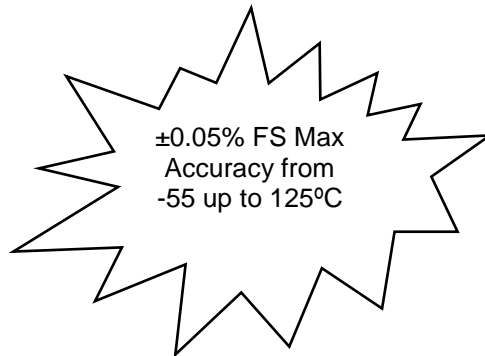


Precision Pressure Transducer LG1237

Honeywell's LG1237 Pressure Transducer offers outstanding performance over temperature along with long-term stability that is unmatched. Utilizing MEMS pressure technology of our highest quality air data sensors, the LG1237 is designed to provide precise and stable pressure measurements. The LG1237 uses proven silicon sensor technology with microprocessor-based signal conditioning to deliver the highest performance pressure transducer.

APPLICATIONS INCLUDE:

- Jet Engines (FADEC systems)
- Ground Based Turbines
- Avionics
- Aerospace Testing
- Meteorology
- Engine Test Cells
- Flight Testing



FEATURES AND BENEFITS

ISO-9001
ISO-14001

- ▶ **High Accuracy Over Temperature**
±0.05% FS Maximum from -55 to 125°C
- ▶ **Extremely Stable**
Less than ±0.010% FS per year
- ▶ **Reliable**
MTBF: >200K hrs in "AUF" environment
- ▶ **Configuration Options**
TTL, RS-485, or RS-422 outputs
- ▶ **Simplifies System Design** – No additional signal compensation needed to gain the benefits of a very accurate sensor.
- ▶ **Lower Maintenance** – Built in test verifies functionality.
- ▶ **Long Life** – Designed to provide precise and stable pressure measurements.
- ▶ Connects to PCs or systems through a 2 or 4 wire TTL, RS-485, or RS-422 serial interface. Accommodates "networking" and time-synchronized "snapshot" measurements of up to 15 transducers on a single bus. Output can be scaled for various units and offsets.

LG1237

SPECIFICATIONS

Performance Specifications⁽¹⁾

Accuracy:

±0.05% FS Maximum from -55 up to 125°C (-67 to 257°F)

Temperature Range:

Operating: -55 up to 125°C (-67 to 257°F)

Storage: -65 to 150°C (-85 to 302°F)

Resolution/Dynamic Range:

16 bits (1 part in 65,536)

Response:

20 Hz frequency response with 9ms typical latency

Long Term Stability:

Less than ±0.010% FS/year

Mechanical Specifications

Pressure Ranges and Type:

Various absolute pressure ranges up to 1000 psia

Media Compatibility: Operates satisfactory with most non-conductive gaseous pressure media

Weight: 75 gm (2.7 oz)

Electrical Specifications

Output: TTL, RS-485 (or RS-422)

Power Requirements and Operating Current:

(Assumes TTL loads ≥ 1K ohms and RS-485 [or RS-422] load ≥ 120 ohms)

0.4 watt typical, less than 1 watt maximum

5 ± 0.5V @ 58mA typical, 120mA maximum

9 to 16V @ 8mA typical, 12mA maximum

Environmental Features⁽²⁾

Overpressure: 1.5x FS, maximum 1200psi

Humidity: MIL-STD-810D, Method 507.2 Procedure III (Aggravated humidity environment, 65°C, 95% humidity)

Acceleration: MIL-STD-810D, Method 513.3 (non-operational 10g acceleration)

Mechanical Shock: MIL-STD-810D, Method 516.3, Procedure I (operational 20g and non-operation crash safety 30g)

Vibration: MIL-STD-810D, Method 514.3, Category 4, curves D, E, C, B, C', and B' (standard and robust random variation.)

(1) Accuracy is the sum of worse case linearity, repeatability, hysteresis, thermal effects and calibration errors from -55 up to 125°C.

(2) When installed per specification requirements.

Find out more

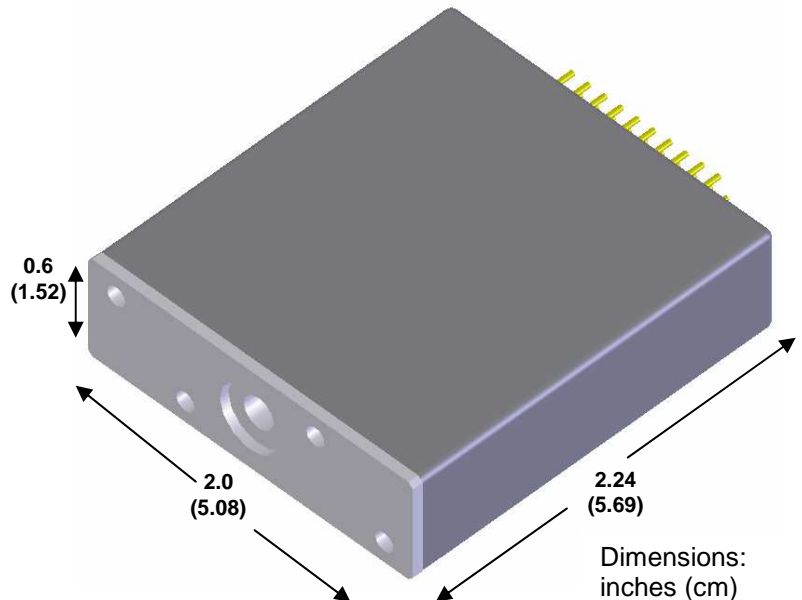
For more information on Honeywell's Precision Pressure Transducers visit us online at www.pressuresensing.com or contact us at 800-323-8295 or 763-954-2474. Customer Service Email: ssec.customer.service@honeywell.com.

Honeywell reserves the right to make changes to improve reliability, function or design. Honeywell does not assume any liability arising out of the application or use of any product or circuit described herein; neither does it convey any license under its patent rights nor the rights of others. Covered by one or more of the following US Patents: 4,918,992 and 4,788,521.

Honeywell Aerospace
Honeywell International Inc.
12001 Highway 55
Plymouth, MN 55441
Tel: 800-323-8295
www.honeywell.com

Form #900312
October 2007
©2007 Honeywell International Inc.

CASE OUTLINE



ORDERING INFORMATION

Contact Factory for Product Selection and Pricing.
Please Provide Technical Requirements for Program.

Honeywell