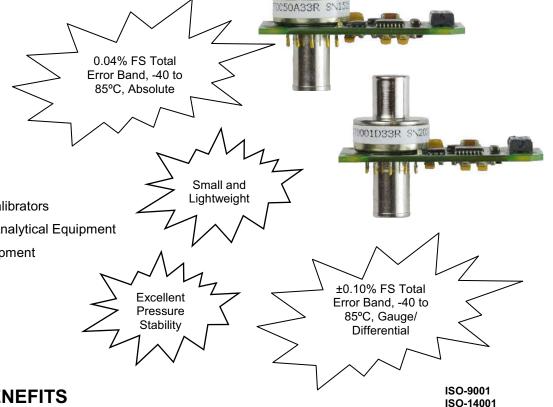
# Honeywell

# Integrated Pressure Transducer IPT/IPT0020A33R/IPT0050A33R/IPT0001G33R/IPT0001D33R

Honeywell's Integrated Pressure Transducer (IPT) provides high accuracy pressure data in an industry standard SPI digital format. The core of the IPT is a proven Honeywell silicon piezoresistive pressure sensor with both pressure and temperature sensitive elements. The IPT is small and lightweight and can be easily integrated by the user into a wide variety of applications that require high performance in a small package. Applying the coefficients stored in the on-board EEPROM to the normalized IPT pressure and temperature output yields highly accurate and stable pressure readings over the -40 to 85°C compensated temperature range.

#### **APPLICATIONS:**

- Air Data Computers
- Altimeters
- > Cabin Air Pressure
- Engine Test Systems
- Flight Test Systems
- Meteorology
- Flow and Pressure Calibrators
- Instrumentation and Analytical Equipment
- Research and Development



## FEATURES AND BENEFITS

- High Accuracy Over a Wide Temperature Range
  From -40 to 85°C
  ±0.04% FS Total Error Band (absolute pressure), to ±0.10% FS Total Error Band (gauge/ differential pressure)<sup>(1)</sup>
- Digital SPI Output

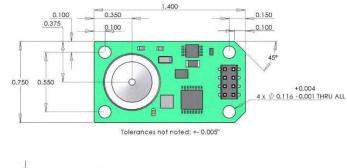
- Stored Correction Coefficients in EEPROM Ready to use; No additional pressure and temperature calibration necessary.
  Simplifies System Design – No additional signal compensation needed to achieve a highly accurate pressure reading.
- Industry Standard Interface Ready communication between a µController/µProcessor and the IPT.

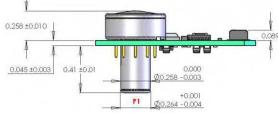
Small and Versatile

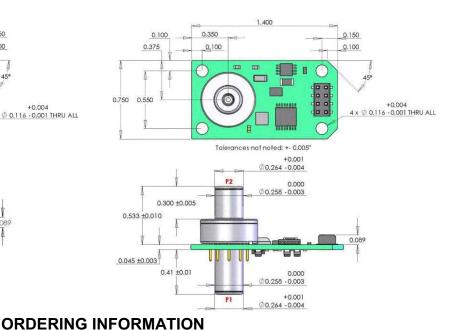
Volume ~ 1 in<sup>3</sup> (16 cm<sup>3</sup>)
Lightweight – Less than 10 grams.
Media Interface – Handles most dry gas media.

## IPT/IPT0020A33R/IPT0050A33R/IPT0001G33R/IPT0002G33R/IPT0001D33R/IPT0002D33R

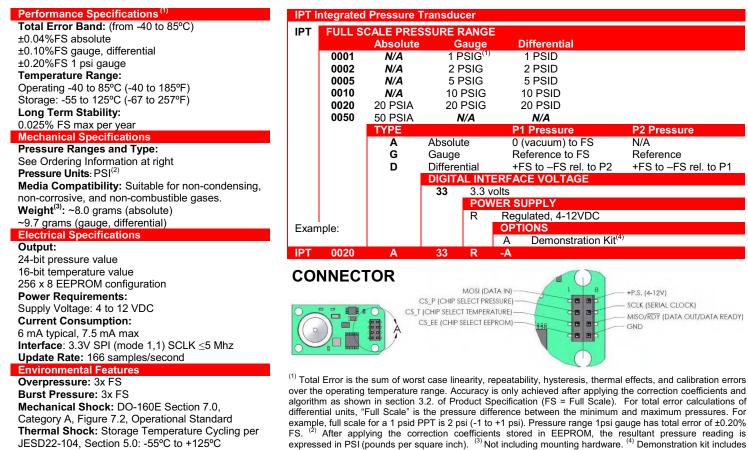
### DIMENSIONS







## SPECIFICATIONS



Find out more

Vibration: DO-160E Section 8, Category H,

Aircraft Type 2, Aircraft Zones 1 & 2 RoHS Compliant (2002/05/EC): Yes

For more information on Honeywell's Precision Pressure Transducers visit us online

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RS-232 Cable, Demo Board, AC adapter, MS Windows Software, and User's Manual.

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