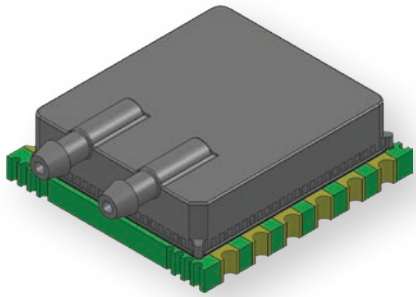
All Sensors®
an Amphenol company

Product Spotlight

AUAV High Accuracy Dual Air Speed & Altitude Sensor



The Amphenol All Sensors AUAV series is a dual sensor specifically designed for the demanding requirements of Unmanned Aerial Vehicles (UAVs). This sensor combines a high-accuracy differential pressure sensor with a Barometric (Altitude) pressure sensor in a single package. A unique dual ASIC compensation technique provides 18 Bit calibration accuracy for exceptional high-resolution performance measuring both airspeed and altitude measurements simultaneously.

This small, lightweight sensor is produced using a compact printed circuit board (PCB) module and is compatible with automated SMT Assembly processes. The AUAV series provides a total error band (TEB) of less than 0.65% over the compensated range of -30°C to +85°C. Interfacing the flight control system is easily handled with available I^2C and SPI output interfaces. AUAV operates from a single supply of either 3.3 Vdc or 5.0 Vdc

Multiple tubing port options are supported, including a low-profile side-port configuration with only 2 tubing connections required.

Features

- Compact and Lightweight Dual Sensors in a Single Package
- Simultaneous Measurement of Windspeed and Altitude (Barometric) Sensing
- 18-bit high resolution I^2C or SPI Output Interfaces for both sensors
- -40°C to +85°C Operating Temperature Range for Harsh environments
- Surface Mount Design compatible with SMT Automated Assembly
- 3.3 or 5.0 Vdc supply voltage
- Low power option available (standby <1uA)
- Barbed pressure ports
- Fully Customizable for OEM applications

About Amphenol All Sensors

Amphenol All Sensors is an industry leader in the design and manufacturing of ultra-low pressure sensors. All Sensors' product line is notable for its high accuracy and repeatability. Our sensors are particularly suited for low and ultra-low pressure applications. Pressure ranges are available as low as 0.25 in H2O and as high as 150 PSI. Custom port fittings and various package options are available, as well as customizable pressure ranges and performance values.

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