



AEROSPACE PRESSURE SENSORS

Description

Sensata sells more pressure sensors than any other company worldwide. Decades of experience mean that Sensata can develop and manufacture application-specific products in-house, reducing costs to the customer and ensuring strict adherence to quality and reliability standards. Sensata pressure sensors can be found on both civil and military platforms serving a wide variety of mission-critical applications.



Features

- Single- and multi-channel options including combined pressure + temperature sensing
- Silicon-on-Insulator (SOI) technology for high temperature performance and stability
- Fully hermetic, welded designs
- RTCA DO-160 and MIL-STD-810 tested
- MEMS piezoresistive, thin-film strain gauge, and ceramic capacitive technologies to suit your application needs
- Proprietary ASIC technology for high accuracy, temperature compensated performance with diagnostic capability
- EMC, lightning, and ESD protected

Applications

- Engine monitoring and control
- Bleed air
- Flight control
- Hydraulic actuation
- Health and Usage Monitoring Systems (HUMS)
- Cabin air and climate controls
- Landing gear
- Brakes
- Tire Pressure Monitoring (TPMS)
- Space and satellite
- APU systems
- and more...



SPECIFICATIONS

Mechanical

Pressure Range	1 psi to 50,000 psi
Pressure Reference	Absolute, Sealed Gage, Vented Gage, Differential
Pressure Interface	Threaded fitting, radial seal fitting, face seal flange, tube/hose (as specified)
Proof Pressure	2X operating pressure (typical)
Burst Pressure	3X operating pressure (typical)
Compatible Media	Fuel, oil, air, hydraulic fluid

Electrical

Outputs	Millivolt, amplified voltage (differential or single-ended), 4-20 mA, digital
Electrical Interface	Connector or cable (as specified)
Total Error Band	up to $\pm 0.5\%$ Full-Scale Output

Environmental

Operating Temperature	-67°F to 500°F (-55°C to +260°C)
Pressure Impulse	1M cycles per ARP1383
Test Certification	RTCA DO-160, MIL-STD-810, MIL-STD-461

Sensata Technologies, Inc. ("Sensata") data sheets are solely intended to assist designers ("Buyers") who are developing systems that incorporate Sensata products (also referred to herein as "components"). Buyer understands and agrees that Buyer remains responsible for using its independent analysis, evaluation and judgment in designing Buyer's systems and products. Sensata data sheets have been created using standard laboratory conditions and engineering practices. Sensata has not conducted any testing other than that specifically described in the published documentation for a particular data sheet. Sensata may make corrections, enhancements, improvements and other changes to its data sheets or components without notice.

Buyers are authorized to use Sensata data sheets with the Sensata component(s) identified in each particular data sheet. HOWEVER, NO OTHER LICENSE, EXPRESS OR IMPLIED, BY ESTOPPEL OR OTHERWISE TO ANY OTHER SENSATA INTELLECTUAL PROPERTY RIGHT, AND NO LICENSE TO ANY THIRD PARTY TECHNOLOGY OR INTELLECTUAL PROPERTY RIGHT, IS GRANTED HEREIN. SENSATA DATA SHEETS ARE PROVIDED "AS IS". SENSATA MAKES NO WARRANTIES OR REPRESENTATIONS WITH REGARD TO THE DATA SHEETS OR USE OF THE DATA SHEETS, EXPRESS, IMPLIED OR STATUTORY, INCLUDING ACCURACY OR COMPLETENESS. SENSATA DISCLAIMS ANY WARRANTY OF TITLE AND ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, QUIET ENJOYMENT, QUIET POSSESSION, AND NON-INFRINGEMENT OF ANY THIRD PARTY INTELLECTUAL PROPERTY RIGHTS WITH REGARD TO SENSATA DATA SHEETS OR USE THEREOF.

All products are sold subject to Sensata's terms and conditions of sale supplied at www.sensata.com SENSATA ASSUMES NO LIABILITY FOR APPLICATIONS ASSISTANCE OR THE DESIGN OF BUYERS' PRODUCTS. BUYER ACKNOWLEDGES AND AGREES THAT IT IS SOLELY RESPONSIBLE FOR COMPLIANCE WITH ALL LEGAL, REGULATORY AND SAFETY-RELATED REQUIREMENTS CONCERNING ITS PRODUCTS, AND ANY USE OF SENSATA COMPONENTS IN ITS APPLICATIONS, NOTWITHSTANDING ANY APPLICATIONS-RELATED INFORMATION OR SUPPORT THAT MAY BE PROVIDED BY SENSATA.

Mailing Address: Sensata Technologies, Inc., 529 Pleasant Street, Attleboro, MA 02703, USA.

CONTACT US

Americas
+1 (805) 716-0322
info.kavlico@sensata.com