



BOARD MOUNT PRESSURE SENSORS

TE Connectivity (TE) offers a full line of printed circuit board mount pressure sensors for a wide range of applications and industries where digital or analog output, compact size, lightweight, and cost-effective solutions are needed. Choose the best solution for your application from our broad selection of digital and analog PCB mountable pressure sensors, available in both through-hole and surface mount configurations.

Engineered with leading edge MEMS technology and our proven experience in design and manufacturing capabilities—TE pressure sensors provide advanced performance, durability, and long-term stability. Use TE's innovative board mount pressure sensors to enhance your product's performance. Whatever your industry challenge, TE has the solution.

DESIGN QUESTIONS

- What is the use of pressure readings in the application?
- What is the pressure accuracy needed?
- What is the output needed (I²C, analog)?
- What are your environmental conditions, operating temperature and humidity range?
- Are there some environmental constraints such as chemicals, pollution, water immersion; repeated condensation events?


- **DIGITAL OUTPUT**
- **ANALOG OUTPUT**
- **SMALL SIZE**
- **LIGHTWEIGHT**
- **PCB MOUNTABLE**
- **THROUGH-HOLE OR SURFACE MOUNT**

FIND OUT MORE









DIGITAL OUTPUT BOARD MOUNT PRESSURE SENSORS

24-Bit, Ultra-Low Power, Pressure, Temperature and Humidity (100% RH) Sensors

Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Total Error [%FS]	Accuracy [%FS]	Digital Interface Protocol	Size [mm]	Typical Applications
Absolute									
 MS8607	SMD	1.5 - 3.6	2 bar, 100% RH	-40 to +85	0.016	±4.0	I ² C	5 x 3 x 1	Smart Phones, Tablets, HVACR, Weather Station, Home Appliances, Humidifiers



24-Bit, Ultra-Low Power, Pressure and Temperature Sensors

Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Resolution [mbar]	Accuracy [mbar]	Digital Interface Protocol	Size [mm]	Typical Applications
Absolute									
 MS5607-02BA	SMD	1.8 - 3.6	10 to 2000 mbar	-40 to +85	0.024	±1.5	I ² C or SPI pin selectable	5 x 3 x 1	Mobile Altimeter/Barometer Systems, Bike Computers, Variometers, Dataloggers, Mobile Phones
 MS5611-01BA	SMD	1.8 - 3.6	10 to 1200 mbar	-40 to +85	0.012	±1.5	I ² C or SPI pin selectable	5 x 3 x 1	Mobile Altimeter/Barometer Systems, Bike Computers, Variometers, Medical Alarms, Indoor Navigation
 MS5637x	SMD	1.5 - 3.6	2, 30 bar	-40 to +85, -20 to +85	0.016, 0.27	±4.0, ±1.5	I ² C	3 x 3 x 0.9	Smart Phones, Tablets, Industrial Equipment, Tire Pressure Monitoring Systems (TPMS)
Absolute									
 MS5803x	SMD	1.8 - 3.6	1, 2, 5, 7, 14, 30 bar	-40 to +85	0.012, 0.024, 0.036, 0.04, 0.2, 0.5	±2.5, ±120, ±50, -200 to +100, ±400	I ² C or SPI pin selectable	6.2 x 6.4 x 2.9	Multifunction Watches, Bike Computers, Diving Watches
 MS5805-02BA	SMD	1.8 - 3.6	2 bar	-40 to +85	0.02	±4.0	I ² C	4.5 x 4.5 x 3.5	Mobile Altimeter/Barometer Systems, Multifunction Watches, Bike Computers, Variometers, Dataloggers
 MS5837x	SMD	1.5 - 3.6	2, 7, 30 bar	-20 to +85	0.016, 0.2	±4, ±400	I ² C	3.3 x 3.3 x 2.75	Drones, Fitness Trackers, Bike Computers, Mobile Altimeter/Barometer Systems, Wearables
 MS5839-02BA *	SMD	1.5 - 3.6	2 bar	-20 to +85	0.016	±4	I ² C	3.3 x 3.3 x 2.75	Shallow Diving Computers, Underwater Drones, Swim Watches, Fitness Trackers, Diving Equipment
 MS5840-02BA *	SMD	1.5 - 3.6	2 bar	-20 to +85	0.016	±4	I ² C	3.3 x 3.3 x 1.7	Drones, Fitness Trackers, Bike Computers, Mobile Altimeter/Barometer Systems, Wearables, Shallow Diving Computers, Swim Watches
Absolute, Differential, Gage									
 MS5525DSO	SOIC-14	1.8 - 3.6 V	1, 2, 5, 15, 30 psi	-40 to +125	TEB = ±2.5% FS	±0.25% FS	I ² C or SPI pin selectable	12.5 x 7.9	Factory Automation, Altitude Measurement, Medical Devices





*Chlorine Resistant Option

DIGITAL OUTPUT BOARD MOUNT PRESSURE SENSORS




















14-Bit, Pressure and Temperature (11-Bit) Sensor

Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Total Error [%FS]	Accuracy [%FS]	Digital Interface Protocol	Size [mm]	Typical Applications
Differential, Gage									
 MS4515DO	8-pin DIL	3.3 or 5.0 V	2, 4, 5, 10, 20, 30 in H ₂ O	-10 to +85°C	±1.0	±0.25	I ² C or SPI pin selectable	12.45 x 9.90	Blocked Filter Detection, Medical Instruments
 MS4525DO	8-pin DIL	3.3 or 5.0 V	1, 5, 15, 30, 50, 100, 150 psi	-25 to +105°C	±1.0	±0.25	I ² C or SPI pin selectable	12.45 x 9.90	Factory Automation, Medical Instruments

16-Bit, Ultra-Low Power, Pressure Sensor



Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Resolution [mbar]	Accuracy [mbar]	Digital Interface Protocol	Size [mm]	Typical Applications
Absolute									
 MS5534C	SMD	2.2 - 3.6	10 - 1100 mbar	-40 to +125	0.1	±1.5	TE Proprietary	9 x 9 x 4.3	Mobile Altimeter/Barometers, Weather Control Systems, Multifunction Watches, GPS Receivers
 MS5535x	SMD	2.2 - 3.6	14, 30 bar	-40 to +125	1.2, 3	-400 to 500, -160 to +200	TE Proprietary	9 x 9 x 4.3	Diving Computers, Mobile Water Depth
 MS5540C	SMD	2.2 - 3.6	10 - 1100 mbar	-40 to +85	0.1	±1.5	TE Proprietary	6.2 x 6.4 x 2.9	Mobile Altimeter/Barometer Systems, Multifunction Watches, GPS Receivers, Weather Control Systems
 MS5541x	SMD	2.2 - 3.6	14, 30 bar	-40 to +85	1.2, 3	+300	TE Proprietary	6.2 x 6.4 x 2.9	Diving Computers, Multifunction Watches, Mobile Water Measurements
Gage									
 MS5536x	SMD	2.2 - 3.6	60 mbar, -400 to +1000 mbar	0 to +100, -40 to +85	0.05, 0.1	±1.0, ±2.5	TE Proprietary	13 x 10.2 x 10.6	Air Flow Measurement, HVACR, Medical Devices

ANALOG OUTPUT BOARD MOUNT PRESSURE SENSORS

mV Output Pressure Sensors									
Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Output/Span [mV]	Accuracy	Size [mm]	Feature	Typical Application
Absolute, Differential, Gage - Temperature Compensated									
 1210	8 pin DIL	1.5 mA	2, 5, 100, 15, 30, 50 psi	-40 to +125	100	±0.1% Span	14.7 x 15.2	Current Excitation	Factory Automation, Medical Devices, Process Control, Vacuum Measurements
 1220	8 pin DIL	1.235 V	2, 5, 15, 30, 50, 100 psi	-40 to +125	50	±0.1% Span	14.7 x 15.2	Voltage Excitation	Factory Automation, Medical Devices, Process Control, Vacuum Measurements, Hand-held Calibrators
 1230	8 pin DIL	1.5 mA	2, 5, 15, 30, 50, 100 psi	-40 to +125	100	±0.1% Span	14.7 x 15.2	UltraStable, Current Excitation	Factory Automation, Medical Devices, Process Control, Environmental Control, Altitude Measurement
 1240	8 pin DIL	1.235 V	2, 5, 15, 30, 50, 100 psi	-40 to +125	50	±0.1% Span	14.7 x 15.2	UltraStable, Voltage Excitation	Factory Automation, Medical Devices, Process Control, Leak Detection, Hand-held Calibrators
 MS4425	6 pin DIL	12 V	1, 5, 15, 30, 50, 100, 150, 300 psi	-25 to 85	100, 150, 18, 60, 90	±0.15% Span	15.2 x 13.7	Voltage Excitation	Factory Automation, Medical Devices, Process Control, Leak Detection, Altitude and Airspeed Measurement
 MS4426	6 pin DIL	12 V	1, 5, 15, 30, 50, 100, 150, 300 psi	-25 to +85	100, 150, 18, 60, 90	±0.15% Span	15.2 x 13.7	Voltage Excitation	Factory Automation, Medical Devices, Process Control, Leak Detection, Altitude Measurement
Absolute, Gage - Temperature Compensated									
 13.43	TO-8	1.5 mA	2, 5, 10, 15, 30, 50, 100, 250 psi	-40 to +125	100	±0.1% Span	Diameter 11.4	Current Excitation	Medical Devices, Factory Automation, Process Control, Vacuum Measurements, Hand-held Calibrators
 13.43	TO-8	1.5 mA	1 psi	-40 to +125	100	±0.3% Span	Diameter 11.4	Current Excitation	Medical Devices, Factory Automation, Process Control, Vacuum Measurements, Leak & Level Detection
 17.47	TO-8	1.5 mA	15, 30, 50, 100, 250 psi	-40 to +125	100	±0.1% Span	Diameter 11.4	UltraStable, Current Excitation	Medical Devices, Factory Automation, Process Control, Vacuum Measurements, Hand-held Calibrators
Differential, Gage - Temperature Compensated									
 23.33	TO-8	1.5 mA	2, 5, 10, 15, 30, 50, 100, 250 psi	-40 to +125	100	±0.1% Span	Diameter 11.4	Current Excitation	Medical Devices, Factory Automation, Process Control, Hand-held Calibrators, Airspeed Measurement
 22.33	TO-8	1.5 mA	1 psi	-40 to +125	100	±0.3% Span	Diameter 11.4	Current Excitation	Medical Devices, Factory Automation, Process Control, Leak & Level Detection, Airspeed Measurements
 27.37	TO-8	1.5 mA	15, 30, 50, 100, 250 psi	-40 to +125	100	±0.1% Span	Diameter 11.4	UltraStable, Current Excitation	Medical Devices, Factory Automation, Process Control, Hand-held Calibrators, Environmental Control
Absolute - Uncompensated									
 50	TO-5	3 V	15, 30, 50, 100, 250, 500 psi	-40 to +125	60	±0.25% Span	Diameter 8.2	Voltage Excitation	Tire Pressure, Appliances, Medical Devices, Altitude Measurement, Barometric Pressure
 MS52xx	SMD	5 V, 20 V	1, 12 bar	-40 to +125	150, 240	±0.05/0.15% FS	7.6 x 7.6 x 4.3	Voltage Excitation	Altimeters, Barometers, Engine Controls, Tire Pressure
 MS52xx C&T	SMD	5 V, 20 V	1, 4, 7 bar	-40 to +125	240, 225, 392	±0.15% FS	7.6 x 7.6 x 4.3	Voltage Excitation	Altimeters, Barometers, Engine Controls
 MS54xx	SMD	5 V, 20 V	1, 7, 12 bar	-40 to +125	150, 240, 310, 392	±0.05% or ±0.2%	6.2 x 6.4 x 2.9	Voltage Excitation	Brake Systems, Engine Management, Swim Watches, Dive Computers
Absolute, Gage - Uncompensated									
 MS1451	SMD	3V	5, 15, 30, 50, 100, 250, 500 psi	-40 to +125	60	±0.25% Span	7.6 x 7.6	Voltage Excitation	Tire Pressure, Appliances, Medical Devices, Altitude Measurement, Barometric Pressure
 MS1471	SMD	5V	5, 15, 30, 50, 100, 250, 500 psi	-40 to +125	Sensitivity = 13mV/V	±0.25% Span	7.6 x 7.6	Voltage Excitation	Tire Pressure, Appliances, Medical Devices, Altitude Measurement, Barometric Pressure
Gage - Uncompensated									
 MS5201-XD	SMD	5 V, 20 V	1 bar	-40 to +125	150, 240	±0.05/0.15% FS	7.6 x 7.6 x 8.5	Voltage Excitation	Medical Devices, Pneumatic Controls

ANALOG OUTPUT BOARD MOUNT PRESSURE SENSORS

Amplified Ratiometric Analog Output Pressure Sensors

Product	Package	Supply Voltage	Pressure Range	Operating Temperature [°C]	Output/Span [Vdc]	Accuracy	Size [mm]	Feature	Typical Application
Differential, Gage									
 MS4515	8 pin DIL	3.3, 5 V	2, 4, 5, 10, 20, 30 in H ₂ O	-10 to +85	10 - 90% 5 - 95%	±0.25% Span	12.5 x 9.9	Barbed Pressure Ports	Blocked Filter Detection, Medical Devices
Absolute, Compound, Differential, Gage, Vacuum									
 MS4525	8 pin DIL	3.3, 5 V	1, 2, 5, 15, 30, 50, 100, 150 psi	-25 to +105	10 - 90% 5 - 95%	±0.25% Span	12.5 x 9.9	Barbed Pressure Ports	Factory Automation, Medical Devices