



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.

- Digital Output
- Analog Output
- Small Size
- Light Weight
- PCB Mountable
- Through-Hole or Surface Mount

DESIGN QUESTIONS

- What type of pressure reading is needed for the application?
- What pressure accuracy is needed?
- What is the output needed (I²C, SPI, 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?

STANDARD SIZE BOARD MOUNT PRESSURE SENSORS

Gel Filled Pressure Sensors										
	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	MS5849	SMD	1.5V - 3.6 V	300 - 30000mbar	-20°C - 110°C *	SPI, I ² C	±1 mbar	3.3 x 3.3 x 2.7	MS5849 includes a high linearity pressure sensor and an ultra-low power 24-bit $\Delta\Sigma$ ADC with internal factory calibrated coefficients. It provides precise digital 24-bit pressure and values and different operation modes that allow the user to optimize conversion speed and current consumption.	Wearable Altimeters Medical portable devices Drug treatment corrosive environments
	MS5803	SMD	1.8 - 3.6 V	1, 2, 5, 7, 14, 30 bar	-40 to +85°C	SPI, I ² C	±1.5 mbar	6.2 x 6.4 x 2.9	MS5803 is a high-resolution MEMS barometric pressure sensor optimized for altimeters and variometers, offering altitude resolution down to 10 cm. It integrates a highly linear pressure sensor, ultra-low-power 24-bit ADC, factory calibration, and SPI/I ² C interfaces. Featuring gel protection and a stainless-steel cap for water-resistant applications, it delivers accurate pressure and temperature measurements, low hysteresis, and excellent long-term stability.	Multifunction Watches, Bike Computers, Diving Watches
	MS5837	SMD	1.5 - 3.6 V	2, 7, 30 bar	-20 to +85°C	I ² C	±1.5 mbar	3.3 x 3.3 x 2.75	The MS5837 is a high-resolution MEMS pressure and temperature sensor optimized for water depth measurement with 0.2 cm resolution. It integrates a highly linear pressure sensor, ultra-low-power 24-bit ADC, factory calibration, and an I ² C interface, delivering accurate measurements with low power consumption. Its gel-protected, water-resistant design and enhanced chemical durability make it ideal for harsh liquid environments.	Drones, Fitness Trackers, Bike Computers Mobile Altimeter/Barometer Systems, Wearables

	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	MS5805-02BA	SMD	1.8 - 3.6 V	2 bar	-40 to +85°C	I ² C	±2 mbar	4.5 x 4.5 x 3.5	The MS5805-02BA is a high-resolution MEMS barometric pressure sensor optimized for altimeters and variometers, offering altitude resolution down to 20 cm. It integrates a highly linear pressure sensor, ultra-low-power 24-bit ADC, factory calibration, and an I ² C interface, providing accurate pressure and temperature measurements with excellent stability, low hysteresis, and low power consumption.	Mobile Altimeter/Barometer Systems, Multifunction Watches, Bike Computers, Variometers, Dataloggers
	MS54xx	SMD	5 V, 20 V	1, 7, 12 bar	-40 to +125°C	mv output	±0.05% or ±0.2%	6.2 x 6.4 x 2.9	The MS54XX SMD series is a high-resolution, high-accuracy pressure sensor family featuring a silicon MEMS sensing element mounted on a compact ceramic carrier. Available in high-sensitivity or high-linearity versions, it provides an analog output voltage proportional to the applied pressure.	Brake Systems, Engine Management, Swim Watches, Dive Computers
	MS5840-02BA	SMD	1.5 - 3.6 V	2 bar	-20 to +85°C	I ² C	±2 mbar	3.3 x 3.3 x 1.7	The MS5840-02BA is an ultra-compact, gel-filled MEMS pressure and temperature sensor optimized for space-constrained applications such as wearables, fitness trackers, and drones. Featuring a highly linear pressure sensor, ultra-low power consumption (0.6 µA), 24-bit I ² C output, and 13 cm altitude resolution, it delivers accurate and reliable pressure and temperature measurements in demanding environments.	Drones, Fitness Trackers, Bike Computers Mobile Altimeter/Barometer Systems, Wearables Shallow Diving Computers, Swim Watches

*Depends on model

** relative accuracy

Barometric Pressure Sensors & Pressure Humidity Temperature Sensor

	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	MS5607	SMD	1.5V / 3.6 V	10 - 12000mbar	-40°C - 85°C	SPI, I ² C	±1.5	5.0 x 3.0 x 1.0 mm ³	MS5607 pressure sensor is optimized for altimeters and variometers with an altitude resolution of 20 cm. The sensor module includes a high linearity pressure sensor and an ultra-low power 24-bit $\Delta\Sigma$ ADC with internal factory calibrated coefficients. It provides a precise digital 24-bit pressure and temperature value and different operation modes that allow the user to optimize conversion speed and current consumption	Mobile altimeter barometer systems Bike computers Variometers Dataloggers Mobile phones GPS

	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	MS5611	SMD	1.5V / 3.6 V	10 – 1200mbar	-40°C - 85°C	SPI, I²C	±1.5	5.0 x 3.0 x 1.0 mm³	The MS5611 is a high-resolution digital barometric pressure sensor optimized for altimeters and variometers, delivering altitude resolution down to 10 cm. It integrates a highly linear MEMS pressure sensor, ultra-low-power 24-bit ADC, factory calibration, and SPI/I²C interfaces in a compact 5 × 3 × 1 mm package. The sensor provides accurate pressure and temperature measurements with excellent long-term stability, low hysteresis, and low power consumption.	Mobile altimeter Drone altimeter Bike computers Variometers Height sensing for medical alarms Indoor navigation
	MS5637	SMD	1.5 - 3.6 V	2, 30 bar	-40 to +85°C, -20 to +85°C	SPI, I²C	±1.5 mbar	3 x 3 x 0.9 mm³	The MS5637 is a high-resolution MEMS pressure sensor with an I²C interface, optimized for air pressure measurement with 0.5 mbar resolution. It integrates a highly linear pressure sensor, ultra-low-power 24-bit ADC, and factory calibration, providing accurate digital pressure and temperature outputs. Housed in a compact package with a stainless-steel cap, it delivers low power consumption, simple integration, and proven reliability for industrial applications.	Smart Phones, Tablets, Industrial Equipment, Tire Pressure Monitoring Systems (TPMS)
	MS8607	SMD	1.5 - 3.6 V	2 bar, 100% RH	-40 to +85°C	I²C	±4.0	5 x 3 x 1 mm³	The MS8607 is a compact, ultra-low-power environmental sensor that combines pressure, humidity, and temperature measurements in a single package. Leveraging proven MEMS technology, it delivers high accuracy, excellent linearity, and high-pressure resolution, making it ideal for environmental monitoring, altimeters, HVAC systems, and weather stations.	Smart Phones, Tablets, HVACR, Weather Station, Home Appliances, Humidifiers

STANDARD SIZE BOARD MOUNT PRESSURE SENSORS

Ultra Low Differential Pressure Sensors										
	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	LMI	SMD	5V / 3.3 V	25 – 5000 Pa	0 - 70°C	Analog, I²C	typ. 0.5% @ 25°C	< 18 x 13 x 10	Thermal Flow Principle for Superior Ultra-Low-Pressure Measurement. High Immunity to Dust, Particles and Humidity	Air Flow Measurement, HVACR, Medical Devices
	LDE	THT / SMD	5V / 3.3 V	25 – 500 Pa	0 - 70°C	Analog, SPI	typ. 0.5% @ 25°C	< 19 x 19 x 11	Thermal Flow Principle for Superior Ultra-Low-Pressure Measurement. High Immunity to Dust, Particles and Humidity	Air Flow Measurement, HVACR, Medical Devices

STANDARD SIZE BOARD MOUNT PRESSURE SENSORS

Premium Line Board Mount Pressure Sensors

	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	HCLA	THT / SMD	5V / 3.3 V	2.5 - 75mbar	-25 - 85°C	Analog, I ² C, SPI	N/A	17 x 13	Dual Die Sensors	Air Flow Measurement, HVACR, Medical Devices
	HCE	THT / SMD	5V / 3.3 V	10mbar - 5bar	0 - 85°C	Analog, SPI	0.50%	17 x 13	General Purpose Small Port Sensor	Industrial, Medical
	HDI	THT / SMD	5V / 3.3 V	10mbar - 5bar	0 - 85°C	Analog, I ² C	0.50%	20 x 12	General Purpose Large Port Sensor	Industrial, Medical
	HM	THT	5V / 3.3 V	2.5mbar - 10bar	-20 - 85°C	Analog, I ² C, SPI	0.75%	14 x 10	Increased Media Compatibility	Industrial, Medical
	MS4515	THT / SMD	3.3 / 5.0	2 ~ 30 inH2O	0 ~ +60	Analog	+/-1.0 (>4inH2O); +/-2.0 (<=4inH2O)	12.4 x 9.9	PCB Mountable, Barbed Ports, Ceramic Sensor, Temp Compensated, Gel Coat Option	Blocked Filter Detection, Medical Instruments, HVAC, Pneumatic Controls
	MS4515DO	THT / SMD	3.3 / 5.0	2 ~ 30 inH2O	0 ~ +60	I ² C, SPI	+/-1.0 (>4inH2O); +/-2.0 (<=4inH2O)	12.4 x 9.9	PCB Mountable, I ² C/SPI, Low Power (<1uA standby), Temp Output, Barbed Ports, Gel Coat Option	Blocked Filter Detection, Medical Instruments, HVAC, Pneumatic Controls
	MS4525	THT / SMD	3.3 / 5.0	1 ~ 150 PSI	-10 ~ +85	Analog	+/-1.0	12.4 x 9.9	PCB Mountable, Barbed Ports, Ceramic Sensor, Ultra Stable Process, Temp Compensated, Gel Coat Option	Blocked Filter Detection, Altitude/ Airspeed, Medical Instruments, Pneumatic Controls
	MS4525DO	THT / SMD	3.3 / 5.0	1 ~ 150 PSI	-10 ~ +85	I ² C, SPI	+/-1.0	12.4 x 9.9	PCB Mountable, I ² C/SPI, Low Power (<1uA standby), Temp Output, Ultra Stable Process, Gel Coat Option	Blocked Filter Detection, Altitude/ Airspeed, Medical Instruments, Pneumatic Controls

STANDARD SIZE BOARD MOUNT PRESSURE SENSORS

Performance Line Board Mount Pressure Sensors										
	Product Family	Package	Supply Voltage	Pressure Range	Calibrated Temperature [°C]	Output	TEB [%FS]	Size[mm]	Feature	Typical Application
	TPS Medium Pressure	SMD	5V / 3.3 V	5 - 30 Psi	-20 - 85°C	Analog, I²C	1%	SO16	Cost Effective SMD Package for High Volume Applications and Automated Manufacturing.	Industrial, Medical
	TPS Low Pressure	SMD	5V / 3.3 V	5mbar to 150mbar	-20 - 85°C	Analog, I²C	1%	SO16		Industrial, Medical
	TPS Ultra Low Pressure	SMD	5V / 3.3 V	125-600Pa	-20 - 85°C	Analog, I²C	1%	SO16		Industrial, Medical
	SM1000	SMD	5V / 3.3 V	15 - 30 Psi	-20 - 85°C	Analog, I²C	1%	SO16, SO10		Industrial, Medical
	SM4000	SMD	5V / 3.3 V	2.5 - 14.9 Psi	-20 - 85°C	Analog, I²C	1%	SO16, SO10		Industrial, Medical
	SM5000	SMD	5V / 3.3 V	0.8 - 2.49 Psi	-20 - 85°C	Analog, I²C	1%	SO16		Industrial, Medical
	SM6000	SMD	5V / 3.3 V	0.3 - 0.79 Psi	-20 - 85°C	Analog, I²C	1%	SO16		Industrial, Medical
	SM7000	SMD	5V / 3.3 V	0.07 - 0.29 Psi	-20 - 85°C	Analog, I²C	1%	SO16		Industrial, Medical
	SM9000	SMD	5V / 3.3 V	125 - 600Pa	-20 - 85°C	Analog, I²C	1% after autozero	SO16		Air Flow Measurement, HVACR, Medical Devices

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Ultra Low Differential Pressure Sensors										
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	LDE	THT / SMD	5V / 3.3 V	25 - 500Pa	0 - 70°C	Analog, SPI	typ. 0.5% @ 25°C	< 19 x 19 x 11	Thermal Flow Principle for Superior Ultra-Low-Pressure Measurement. High Immunity to Dust, Particles and Humidity	Air Flow Measurement, HVACR, Medical Devices

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