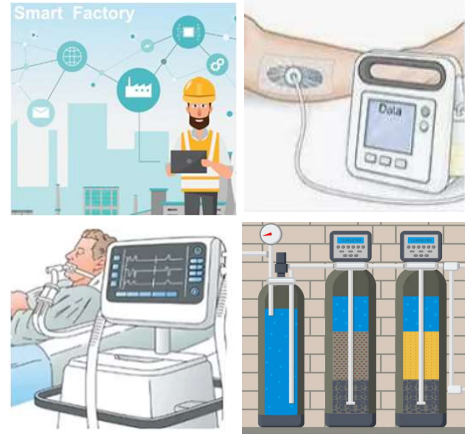


AVSensors

Advanced Sensor Solutions

Board Mount Pressure Sensors



Board Mount pressure sensors are typically soldered onto a printed circuit board (PCB) and integrated into an electronic assembly with the addition of pneumatic plumbing to measure gage, differential and absolute pressures.

Our design construction use the highest resolution ASICs, the fastest conversion times along with safety critical diagnostic features that put them at the fore front of new designs. With legacy mV and high-level voltage outputs as well as the newest 24-bit and 16-bit digital output configurations an ideal solution is easily found.

AVSensors offers a wide range of board mounted sensor platforms with a variety of package footprints configured in top port, side port, barbed and smooth tube configurations allowing simple and low-cost interconnects with plastic tubing.



How are We Different

- AVSensors is an *engineering* company focused on the design, manufacture and sales of silicon pressure sensors.
- We want to serve our customers and understand that *customization* of our standard products are needed to drive manufacturing and products improvements at yours.
- We have *US based technical professionals* that are the single point of contact for all your design needs.

Product Features

Package Styles
TO-8, 0.600 DIP, SOIC-16

Port Configurations
Top & Side Port Barbed Ports

Pin Styles
Thru Hole, SMD, LCC and Gull Wing

Output Types
mV Output, Analog Voltage, and Digital Dual Output / Temperature & Pressure

High Accuracy & Low Thermal Errors

Wide Pressure Range
Ultra Low Pressure down to 0.5inH2O
Medium Pressure to 150 PSI

Digitally Focused
14bit and 24bit Digital Resolutions
I²C and SPI Digital Protocols



Ceramic Hybrid Technology (CHT), mV Output, Temperature Compensated

Product	Series	Pressure Types	Pressure Range	Package	Port Configuration	Package Construction	Excitation	Operating Range [°C]	Temperature Coefficients [ppm/°C] Typ.	Accuracy [Typical]	Output [mV]	Size [in.]	Typical Applications
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mV Uncalibrated & Uncompensated



CCT-4	Absolute Gage		5, 15, 30, 50, 100 150, 300 PSI 20,500,100, 200 mBar	SMD Surface Mount Device	Smooth Vertical Tube Wide Hole Narrow Hole 1/16 ID Hosing	Ceramic (96% Alumina)	3.0 Vdc Constant Voltage	-40 to +125	+2800 TCR -1800 TCS	0.2% BFSL	60	0.300 x 0.300	Process Controls, Factory Automation, Supply Gas Monitoring, Valve Position
CCT-6	Absolute Gage		5, 15, 30, 50, 100 150, 300 PSI 20,500,100, 200 mBar	SMD Calibrated Zero & Sensitivity	Smooth Vertical Tube Wide Hole Narrow Hole 1/16 ID Hosing	Ceramic (96% Alumina)	3.0 Vdc Constant Voltage	-40 to +125	+2800 TCR -1800 TCS	0.2% BFSL	60	0.300 x 0.300	Process Controls, Factory Automation, Supply Gas Monitoring, Valve Position

mV Temperature Compensated

Product	Series	Pressure Types	Pressure Range [PSI]	Package	Port Configuration	Package Construction	Excitation	Operating Range [°C]	Compensated Temperature [°C]	Accuracy [Typical]	Output [mV]	Size [in.]	Typical Applications
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CHT-2	Absolute Gage Differential		5, 15, 30, 50, 100	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	1.5 mA Constant Current	-40 to +125	0 to +50	0.2% BFSL	90	0.600 x 0.600	Process Controls, Gas Chromatographs, Military Drones, Medical Respirators
CHT-3	Absolute Gage Differential		5, 15, 30, 50, 100	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	1.235 Volt Reference	-40 to +125	0 to +50	0.2% BFSL	50	0.600 x 0.600	Process Controls, Gas Chromatographs, Military Drones, Medical Respirators



CTO-8	Absolute Gage Differential		5, 15, 30, 50, 100, 150	Transistor Outline	Vertical Tube Radial O-Ring Mount	Nickel Alloy	1.5 mA Constant Current	-40 to +125	0 to +50	0.2% BFSL	90	0.450 Diameter	Factory Automation/Pneumatic Controls, Pressure Scanners, Optical Surgery
CTO-7	Gage Differential		10, 20 InH2O 1 PSI	Transistor Outline	Vertical Tube Radial O-Ring Mount	Nickel Alloy	1.5 mA Constant Current	-40 to +125	0 to +50	0.2% BFSL	50	0.450 Diameter	Medical Instrumentation, Process Controls, Factory Automation

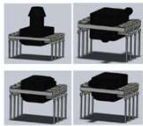




CHT-SM5651	Gage Differential		0.15, 0.30, 0.80, 1.50	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	1.5 mA Constant Current	-40 to +125	0 to +60	0.50% BFSL	50	0.600 x 0.600	Medical Instrumentation, HVAC & Fan Control, Fire Suppression
CHT-SM5652	Gage Differential		0.15, 0.30, 0.80, 1.50	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	10 Vdc Constant Voltage	-40 to +125	0 to +60	0.50% BFSL	25	0.600 x 0.600	Medical Instrumentation, HVAC & Fan Contr.

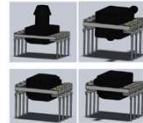






Multi Chip Technology (MCT), ASIC Compensated, Analog Voltage & Digital Outputs

High Level Analog Voltage, Calibrated, Temperature Compensated

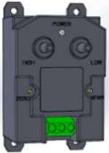

Product	Series	Pressure Types	Pressure Range	Package	Port Configuration	Package Construction	Excitation	Operating Range [°C]	Compensated Temperature [°C]	Error Band [%FSS]	Output [mV]	Size [in.]	Typical Applications
	MCT-4A	Absolute Gage BiDirectional	0..1 to 0..150 PSI 0..5 to 0..200 mBar 0..1 to 0..6 Bar 0..0.50 to 0..4 inH2O	DIL / SIL Dual / Single In Line	Vertical & Horizontal Barb 1/8 ID Hosing Manifold Face Seal	Ceramic (96% Alumina)	3.3 or 5.0 VDC	-40 to +125	-10 to +85	1.0 %FSS	90% Supply 80% Supply	0.490 x 0.390	Medical Instrumentation, Process Controls, Factory Automation, Semiconductor Instrumentation
	MCT-2A	Unidirectional BiDirectional	0..1 PSI 0..4 to 0..100 mBar 0..2 to 0..30 inH2O	SIL Single In Line	Horizontal Barb 3/6 ID Hosing	Thermo Plastic (GF PBT)	3.3 or 5.0 VDC	-40 to +125	0 to +60	1.0 %FSS	90% Supply 80% Supply	0.78 x 0.84	Blocked Filter, Room Pressure Control, Fan Control
	MCT-SM58A	Unidirectional BiDirectional	0..1 to 0..150 PSI 0..5 to 0..200 mBar 0..1 to 0..6 Bar 0..0.50 to 0..4 inH2O	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	3.3 or 5.0 VDC	-40 to +125	-10 to +85	1.0 %FSS	90% Supply 80% Supply	0.600 x 0.600	Process Controls, Factory Automation, Blocked Filter, Room Pressure Control, Fan Control

Digital Output Pressure & Temperature, Calibrated, Temperature Compensated, I²C and SPI Protocols

Product	Series	Pressure Types	Pressure Range	Package	Port Configuration	Package Construction	Excitation	Operating Range [°C]	Compensated Temperature [°C]	Error Band [%FSS]	Resolution [cts]	Size [in.]	Typical Applications
	MCT-4D	Absolute Gage BiDirectional	0..1 to 0..150 PSI 0..5 to 0..200 mBar 0..1 to 0..6 Bar 0..0.50 to 0..4 inH2O	DIL / SIL Dual / Single In Line	Vertical & Horizontal Barb 1/8 ID Hosing Manifold Face Seal	Ceramic (96% Alumina)	3.3 or 5.0 VDC	-40 to +125	-10 to +85	1.0 %FSS	14-Bit Pressure 11-Bit Temperature	0.490 x 0.390	Medical Instrumentation, Process Controls, Factory Automation, Semiconductor Instrumentation
	MCT-SM24HRD	Absolute Gage BiDirectional	0..1 to 0..150 PSI 0..5 to 0..200 mBar 0..1 to 0..6 Bar 0..0.50 to 0..4 inH2O	DIL / SIL Dual / Single In Line	Vertical & Horizontal Barb 1/8 ID Hosing Manifold Face Seal	Ceramic (96% Alumina)	3.3 or 5.0 VDC	-40 to +125	-10 to +85	1.0 %FSS	24-Bit Pressure 16-Bit Temperature	0.490 x 0.390	Medical Instrumentation, Process Controls, Factory Automation
	MCT-SM58D	Absolute Gage BiDirectional	0..1 to 0..150 PSI 0..5 to 0..200 mBar 0..1 to 0..6 Bar 0..0.50 to 0..4 inH2O	DIL Dual In Line	Vertical Tube Smooth & Barbed 3/32 ID Hosing	Ceramic (96% Alumina)	3.3 or 5.0 VDC	-40 to +125	-10 to +85	1.0 %FSS	14-Bit Pressure 11-Bit Temperature	0.600 x 0.600	Process Controls, Factory Automation, Blocked Filter, Room Pressure Control, Fan Control
	MCT-SM95D	Absolute Gage BiDirectional	0..1 to 0..30 PSI 0..5 to 0..50 mBar 0..10 to 0..100 cmH2O 0..2 to 0..20 inH2O	SOIC-16 Small Outline IC	Vertical Tube Barbed 3/32 ID Hosing	LCP (Liquid Crystal Polymer) Thermoplastic	3.3 or 5.0 VDC	-40 to +125	-10 to +60	1.0 %FSS	14-Bit Pressure 11-Bit Temperature	0.405 x 0.403	Medical Instrumentation, Process Controls, Factory Automation
	MCT-SM93D	Absolute Gage BiDirectional	0..125 Pa 0..250 Pa	SOIC-16 Small Outline IC	Vertical Tube Barbed 3/32 ID Hosing	LCP (Liquid Crystal Polymer) Thermoplastic	3.3 or 5.0 VDC	-40 to +125	-10 to +60	3.0 %FSS	14-Bit Pressure 11-Bit Temperature	0.405 x 0.403	Medical Instrumentation, Process Controls, Factory Automation


Ultra Low-Pressure Wall Mounted Transmitters

Ultra Low-Pressure Wall Mounted Transmitters for Building Automation and Room Monitoring

Product	Series	Pressure Types	Pressure Range	Package	Port Configuration	Excitation	Operating Range [°C]	Compensated Temperature [°C]	Error Band [%FSS]	Output [mA]	Size [in.]	Typical Applications
	HVAC-211	UniDirectional BiDirectional	0..62.5 to 0..125 Pa 0..25 to 0..1000 mmH2O 0..1 to 0..40 inH2O	Wall Mount	Vertical Smooth Ports 3/32 ID Hosing	12-30 VDC	-25 to +70	-10 to +60	1.0 %FSS	4-20mA	2.98 x 1.93	Positive Pressure Room Monitor, Duct Pressures, Fan Pressure Measurements
	MSX-7301DI	UniDirectional BiDirectional	100,500,1000, 10 Kpa	Wall Mount	Vertical Smooth Ports 3/32 ID Hosing	12-30 VDC	-45 to +70	0 to +50	0.5% of Reading + 0.5 %FSS	4-20mA	4.56 x 4.83	Positive Pressure Room Monitor, Duct Pressures, Fan Pressure Measurements

AAMI BP-22 Disposable Medical Sensors

mV Compensated & Calibrated Per AAMI-BP-22 Standard

Product	Series	Pressure Range	Package	Connector Types	Port Configuration	Package Construction	Excitation	Operating Range [°C]	Resistance [Ohms] Typ.	Accuracy [Typical]	Output [mV]	Typical Applications
	DPT-4M	-50 to 300mmHg Gage	Plastic Housing with Stopcock & Flush Device	RJ 45 Male USB Type A RJ 45 Shroud	Male & Female Luer Fittings	Medical Grade Polycarbonate	6.0 Vdc Constant Voltage	+10 to +40	Input: 1200-3200 Output: 285-315	1mmHg	5uV/V/mmHg 9mV Nominal	Continuous arterial or venous blood pressure, Intracranial or Intrauterine pressure monitoring, Organ Preservation Perfusion



AV Sensors

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