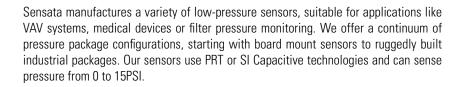


PRESSURE SENSOR SELECTION GUIDE





Low Pressure Sensors



Series	P1J	P1K	P992	P993	8MPP2	P4055		
Picture			1					
Pressure Range		0-10	" H ₂ 0		0-5 PSI	0-15 PSI		
Pressure Reference		Diffe	rential	Vented Gauge	Absolute, Sealed Gauge, Vented Gauge			
Hermetic/Case Isolated				No				
Technology	PRT (MEMS)		SI Capacitive (MEMS)			PRT (MEMS)		
Pressure Port Fittings	Barbed port, ί	11.9[.08]	Ø1/8" tube w/ barb fo	r 3/16 ID tubing	Port Ø7.82mm	1/4"-18 NPT 1/8"-27 NPTF 7/16"-20 UNF-2A (male) M10 X 1 M12 X 1.5 M14 X 1.5 M16 X 1.5 G1/4 per DIN 3852-A 1/4"-19 BSPT per DIN 3852-C 1/8"-28 BSPT per DIN 3852-C		
Package Type	PCB Mou	ınt	PCB Mount, Panel Mount	PCB Mount	Press fit with mounting screw holes	Industrial		
Housing Material	*	*	PET		PPS	Brass		
Seal Material	*	*	*	*	N/A	Fluorosilicone		
Electrical Connector	PCB thru hole te	minal pins	PCB thru hole terminal pins, Leadwires	PCB thru hole terminal pins	4 position FFC connector, gold terminal	Packard Metri-Pack 150		
Sensor Output	Digital I ² C	Ratiometric			Digital I ² C	Ratiometric		
Input	2.7-5.5V	5V			2.7/3.3/5V	5V		
Current Cosumption	<2.5mA	4mA max			8µА	5 mA max		
Accuracy Rating (Total Error Band)	2.75% FS [0° ±5% FS [-20° ±5% FS [+60°C	to 0°C]		±2%FS [10° to 40°C] ±3%FS for 0-1"" Range [10° to 40°C]		±2%FS [-20° to 100°C] ±3%FS [-40°Cto 125°C]		
Ingress Protection			IP00	IP67				
Agency Approval/ Certifications		Ro	SHC	RoHS, REACH, CE	RoHS, CE, UL			
Application Examples	VAV Systems, Portable Medical Devices, Filter Pressue Monitoring, Gaseous Leak Detection Valves, Natural Gas Pipelines, Gas Meters Valves, Natural Gas Monitoring Equipment, Water & Level Management, Oil & Fuel Pressures							

Mid Pressure Sensors



Sensata's mid pressure sensors can sense pressure from 0 to 750 PSI. They come in a variety of different packages, ranging from plastic automotive designs to modular industrial designs. There are multiple housing options, including stainless and plated steel, brass or fiber reinforced PPA. Our sensors are RoHS and REACH compliant, and bear UL and even Drinking Water Safe certifications. Sensata's mid pressure sensors are used in various applications including HVAC, commercial beverage, engine control and construction applications.







Series	116CP	126CP	P1A	112CP	2CP5	60CP	70CP	P265	2HMP	P4000		
Picture						2 2	‡ ‡	\$	A STATE OF THE STA			
Pressure Range	0-:	230 PSI	0-200 PSI	0-650 PSI	0-750 PSI	0-750 PSI	0-750 PSI	0-750 PSI	0-750 PSI	0-750 PSI		
Pressure Reference	Sealed Gauge Absolute, Sealed Gaug		Absolute, Sealed Gauge, Vented Gauge	Absolute, Sealed Gauge	Sealed Gauge Absolute, Sealed Gauge, Vented Gauge				Absolute, Sealed Gauge			
Hermetic/Case Isolated					No				Yes			
Technology	Capacitive Sensing Element			Capacitive Sensing Element + Thermistor					PRT (MEMS)			
Pressure Port Fittings	G1/4 Thread G3/8 Thread Quick Connect Type 2 Quick Connect Options (see product datasheet)		1/4"-18 NPTF 1/8"-27 NPTF 1/4 SAE Flare 7/16"-20 UNF-2A (male) 1/4 SAE Flare 7/16"-20 UNF-2B (female) G1/4 per DIN 3852-A G1/4 per DIN 3852-E 1/4"-19 BSPT per DIN 10226	1/4"-18 NPT M12 x 1.25	1/8"-27 NPTF 1/4 SAE Flare 7/16"-20 UNF-2B (female) Braze In Tube	1/4"-18 NPTF 1/8"-27 NPTF		1/4"-18 NPT 1/8"-27 NPT 3/8"-24 UNF-2A (male) 3/8"-24 UNF-2B (female)	1/8"-27 NPTF 1/4 SAE Flare 7/16"-20 UNF-2A (male) 1/4 SAE Flare 7/16"-20 UNF-2B (female) Braze In Tube	1/4"-18 NPT 1/8"-27 NPT 1/4 SAE Flare 7/16"-20 UNF-2B (female) 7/16"-20 UNF-2A (male) 1/2"-20 UNF-2A (male)		
Package Type					Industrial							
Housing Material	PPA	PPS	Stainless Steel	Brass, P	Plated Steel	teel Brass, Plated Steel, Stainless Steel		Stainless Steel				
Seal Material	Į.	EPDM	External: Aluminum or copper washer G1/4 Internal: Neoprene or Fluorosilicone [FVMQ] Internal/External: Ethylene Propylene [EPDM] or Fluorocarbon - [FKM (VITON])	Neoprene Nitrile	HNBR Neoprene	Ethyle Flot N	Nitrile ne Propylene rosilicone HNBR eoprene ⁄iton™	Nitrile Neoprene Fluorocarbon Fluorosilicone Ethylene Propylene	Hermetic	Metic: Nitrile		
Electrical Connector	RAST	RAST 2.5 3 Pin 18mm EN 175301-803-A0 RAST 2.5 4 Pin M12 4 pole according to IE RAST 2.5 3 Pin Alternate Packard Metri-Pac		4 pin AMP Micro-Quadlok System™ connector		Packard Metri-pack 150			Packard Metripack 15 Deutsch M12			
Sensor Output	Ratiometric		Ratiometric, 4-20mA, Vreg	Ratiometric & 10KΩ@ 25°C	Ratiometric		4-20mA, Vreg	Ratiometric				
Input		5V	5V, 9-30V, 8-30V, 14-30V		5V 6 to 30V		5V					
Current Cosumption		8mA	<600mW, <25mW	8mA	7m/	A	(Vs*-6)/0.02 ohms	5mA	8mA	3mA		
Accuracy Rating (Total Error Band)	±1.5% FS ['2° to 90°C] TYP	±1% FS [-30° to 120°C]	±1.7% FS [0°C to 85°C]	±1.0% FS [-20° to 85°C] ±1.5% FS [-40° to 125°C]	±1.0% FS [-20° to 85°C] ±1.5% FS [-40° to 125°C]	±1.5% FS [-40° to 85°C]	±2.0% FS [-20° to 100°C] ±3.0% FS [-40° to 125°C]	± 1% FS [-25° to 125°C]	±1.5% FS [0° to 125°C] ±2.0% FS [-40° to 125°C]		
Ingress Protection	IP00		IP65 IP67 IP69		IP65			IP65 / IP67	IP67			
Agency Approval/Certifications	RoHS, CE, REACH	Drinking Water Safe (WRAS), RoHS, CE, REACH	CE, RoHS, UL	RoHS, REACH	Rohs, Reach, Ul, Ce		S, REACH drinking water safe options	RoHS	RoHS, UL	RoHS, REACH, UL		
Example Applications		dential Boilers, Commercial Beverage nt, Heat Pumps	Vacuum Machinery, Water Pump Booster Sets, HVAC, Water & Waste Management		HVAC, Compressors & Pumps, Engine Controls, Agriculture & Construction Equipment, Vacuum Machinery, Water Pump Booster Sets, Water and Waste Management							

High Pressure Sensors

Built for the toughest industrial environments, Sensata's high pressure sensors provide reliable solutions to a wide variety of applications. Micro Fused Strain Gauge (MSG) sensing technologies are designed to sense pressure from 0 to 8700 PSI, and feature a robust hermetic pressure port design with high burst pressure strength. With extreme shock and vibration capabilities, a wide operating temperature range, and many configurations available; Sensata's high pressure sensors are ideal for industrial applications including injection molding, $\mathrm{CO_2}$ HVAC systems, and other hydraulic or pneumatic applications.







Series	PTE7100/7300					
Picture						
Pressure Range	0-5800 psi					
Pressure Reference	Sealed Gauge					
Hermetic/Case Isolated	Hermetic / Case Grounded					
Technology	Micro-Fused Strain Gauge					
Pressure Port Fittings	1/4"-18 NPTF 1/4 SAE Flare 7/16"-20 UNF-2A (male) 1/4 SAE Flare 7/16"-20 UNF-2B (female) 1/4-19 PT (BSPT) (R1/4) G1/4 per DIN 3852-E Braze In Copper Tube					
Package Type	Industrial					
Housing Material	Stainless Steel					
Seal Material	External: FKM; NBR					
Electrical Connector	Packard Metri-Pack 150 DIN Form A M12 4-Pole Fly-Lead 3 pole harness Deutsch DT04-3P					
Sensor Output	0-5VDC, 1-5VDC, 0-10VDC, 4-20mA, I ² C					
Input	13-32VDC for 0-10VDC Output, 8-32VDC for 4-20mA Output, 8-32VDC for 0-5VDC Output, 5±0.25VDC for 0.5-4.5VDC Output					
Current Consumption	Analog: <6.5mA, Digital: <4mA					
Accuracy Rating (Total Error Band)	±1.5%FS [-20° to 85°C]					
Ingress Protection	IP65-IP67, IP68 Available for M12 with glass to metal seal					
Agency Approval/Certifications	RoHS, REACH, UL, CE					
Application Examples	Hydraulic Systems, Pneumatic Controls, Refrigerant Control & Recovery, On & Off-Highway Vehicle					

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About us

Sensata Technologies is one of the world's leading suppliers of sensing, electrical protection, control and power management solutions with operations and business centers in twelve countries. Sensata's products improve safety, efficiency and comfort for millions of people every day in automotive, appliance, aircraft, industrial, military, heavy vehicle, heating, air-conditioning and ventilation, data, telecommunications, recreational vehicles and marine applications. For more information please visit Sensata's website at www.sensata.com

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