Sensata
Technologies

PRESSURE SENSORS

SELECTION GUIDE

Pressure Sensors Selection

Sensata offers a wide range of pressure sensors for different applications around the world. They come in a variety of different packages, low to mid-pressure 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	129CP	112CP	2CP5	60CP	70CP	2HMP
Picture								
Pressure Range	0-230 PSI		0-232 psi	0-650 PSI	0-750 PSI	0-750 PSI	0-750 PSI	0-750 PSI
Pressure Reference	Sealed Gauge		Sealed Gauge	Absolute, Sealed Gauge	Absolute, Sealed Gauge, Vented Gauge			Absolute, Sealed Gauge
Hermetic/Case Isolated				No				Yes
Technology	Capacitive Sensing Element			Capacitive Sensing Element	Capacitive Sensing Element			PRT (MEMS)
Pressure Port Fittings	G1/4 Thread G3/8 Thread Quick Connect Type 2 Quick Connect Options (see product datasheet)		Quick Connect	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		1/8"-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
Package Type	Industrial		PCB Mount Enclosure	Industrial				
Housing Material	PPA	PPS	SST 304 and FPG	Brass, Plated Steel	Brass, Plated Steel, Stainless Steel			Stainless Steel
Seal Material	EPDM		EPDM	Neoprene Nitrile	HNBR Neoprene	Nitrile Ethylene Propylene Flourosilicone HNBR Neoprene Viton™		Hermetic
Electrical Connector	RAST 2.5 3 Pin RAST 2.5 4 Pin RAST 2.5 3 Pin Alternate		Flex cable	4 pin AMP Micro-Quadlok System™ connector	Packard Metri-pack 150			
Sensor Output	Ratiometric		Digital I2C	Ratiometric & 10KΩ@ 25°C	Ratiometric		4-20mA, Vreg	Ratiometric
Input	5V		1.7-3.6 VDC	5V			6 to 30V	5V
Current Consumption	8mA		<2 µA at 1Hz measurement	8mA	7mA		(Vs*-6)/0.02 ohms	8mA
Accuracy Rating (Total Error Band)	±1.5% FS [2° to 90°C] TYP		+/-2% FS, 4 to 40°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]	± 1% FS [-25° to 125°C]
Ingress Protection	IP00		IP67	IP65				IP67
Agency Approval/ Certifications	RoHS, CE, REACH	Drinking Water Safe (WRAS), RoHS, CE, REACH	Drinking Water: WRAS, ACS, DM174, KIWA, Others - REACH, RoHS	RoHS, REACH	RoHS, REACH, UL, CE	RoHS, REACH *Consult Sensata for drinking water safe options		RoHS, UL
Example Applications	Residential Booster Pumps, Residential Boilers, Commercial Beverage Equipment, Heat Pumps		Residential Water Meters	HVAC, Compressors & Pumps, Engine Controls, Agriculture & Construction Equipment, Vacuum Machinery, Water Pump Booster Sets, Water and Waste Management				

Mid-High Pressure Sensors

Built for the toughest industrial environments, Sensata's mid-high pressure sensors provide reliable solutions to a wide variety of applications. Micro Silicon Strain Gauge sensing technologies are designed to sense pressure from 0-10 bar to 0-600 bar (0-145 to 0-8700 PSI), and feature a robust hermetic pressure port design with high proof and burst pressure strength. With extreme shock and vibration capabilities, a wide operating temperature range, and many configurations available; These sensors are ideal for industrial applications including injection molding, CO_2 HVAC systems, and other hydraulic or pneumatic applications.

Series	PTE7100	PTE7300	PTE7500
Picture			
Pressure Range	0-10 bar to 0-600 bar (0-145 to 0-8700 PSI)		
Pressure Reference	Sealed Gauge, Vented Gauge		Vented Gauge
Hermetic/Case Isolated	Hermetic / Case Grounded		
Technology	Micro Strain Gauge		
Pressure Port Fittings	1/4"-18 NPTF 1/4 SAE Flare 7/16"-20 UNF-2A (male) 1/4-19 PT (BSPT) (R1/4) G1/4 per DIN 3852-E G1/4B ISO 1179-1 (Female) 7/16-20 UNF JIC Cone Flare		
Package Type	Industrial		
Housing Material	Stainless Steel		
Seal Material	External: FKM; HNBR; EPDM		
Electrical Connector	Packard Metri-Pack 150 DIN 175301-803 Form A M12 x1 4-Pole Fly-Lead 3 pole harness Deutsch DT04-3P GTMS 4-pole M12x1	GTMS 4-pole M12x1 5x1 2mm pitch pin to header	M12 5-pin plastic
Sensor Output	0.5-4.5VDC, 0-5VDC, 1-5VDC, 0-10VDC, 4-20mA	I²C (13 ENOB + CRC)	CANopen
Input	12-32VDC for 0-10VDC Output, 8-32VDC for 4-20mA Output, 8-32VDC for 0-5VDC Output, 8-32VDC for 1-5VDC Output, 8-32VDC for 0.5-4.5VDC Output, 5±0.25VDC for 0.5-4.5VDC Output	3.3VDC to 5.5VDC	9-32 VDC
Current Consumption	<6.5mA	<4mA	<15mA
Accuracy (Best Fit Straight Line)	±0.25%FS @25°C		
Accuracy Rating (Total Error Band)	±1.5%FS [-20° to 85°C]		
Agency Approval/Certifications	RoHS, REACH, CE, UKCA		RoHS, REACH, CE, UKCA, CiA Compliant
Example Applications	Hydraulic Systems, Pneumatic Controls, Refrigerant Control & Recovery, On & Off-Highway Vehicle, Pumps & Compressors, Machine Tools, Injection Molding Equipment, Plant Engineering & Automation		

ABOUT US

Sensata Technologies is a global industrial technology company striving to create a safer, cleaner, more efficient and electrified world. Through its broad portfolio of mission-critical sensors, electrical protection components and sensor-rich solutions, Sensata helps its customers address increasingly complex engineering and operating performance requirements. With more than 19,000 employees and global operations in 15 countries, Sensata serves customers in the automotive, heavy vehicle & off-road, industrial, and aerospace markets.

Learn more at sensata.com.

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