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SensoControl Industrial Products Quick Reference Guide





Sensors and Controllers for Control and Regulation
Bulletin 3883-QRG USA | March 2010



ENGINEERING YOUR SUCCESS.

Continuous Measurement-






Parker's SensoControl sensors are ideal for permanent installation in industrial and mobile hydraulic applications where continuous system monitoring is needed. These precision engineered sensors are rugged in construction and deliver a high degree of dependability and performance with superb stability and resistance to interference.

Series	SCT Series	SCP01 Series	SCP-EX Series	SCP-Custom
Description				
	Temperature measurement	Pressure measurement	Pressure measurement with explosion resistance	Custom pressure sensors
	<ul style="list-style-type: none"> Rated to 6000 PSI operating parameters High sensitivity to temperature changes Compact design Steel housing 	<ul style="list-style-type: none"> Vacuum to 9000 PSI measuring range Shock and vibration-resistant Compact design Stainless steel housing 	<ul style="list-style-type: none"> 0 to 9000 PSI measuring range Excellent resistance to electrical interference Compact design Stainless steel housing 	<ul style="list-style-type: none"> Compact design Stainless steel housing Customizable to unique system operating parameters
Measurement range	-58° F to +250° F	-14.5 to +60 PSI -14.5 to 150 PSI -14.5 to 250 PSI 0 to 1000 PSI 0 to 3000 PSI 0 to 5000 PSI 0 to 9000 PSI	0 to 1000 PSI 0 to 3000 PSI 0 to 5000 PSI 0 to 9000 PSI	Custom ranges between -14.5 PSI and 58,000 PSI
Port configuration	7/16-20 UNF-2A male straight thread (SAE-4) 1/4" NPT male thread *	7/16-20 UNF-2A male straight thread (SAE-4) 1/4" NPT male thread *	7/16-20 UNF-2A male straight thread (SAE-4) 1/4" NPT male thread *	SAE NPT BSPP Metric others on request
Accuracy	± 2.0 % FS	± 0.5 % FS	± 0.5 % FS	± 0.5 % FS
Electrical connection	M12x1	M12x1	DIN 34650 EX	Fixed cable Plug options include: AMP Packard Deutsch M12x1 DIN EN 175301-803 Form A others on request
Electrical output	0 - 20 mA; 3-wire	4 - 20 mA; 3-wire 4 - 20 mA; 2-wire 0 - 10 V; 3-wire	4 - 20 mA; 2-wire	4 - 20 mA, 0 - 20 mA 1 - 5 V/ 1 - 6 V / 0 - 10 V 0.5 - 4.5 V ratiometric PWM others on request
Applications include:	<ul style="list-style-type: none"> Test stands Hydraulic power units Handling / lifting equipment General machine construction Pneumatic / hydraulic industrial plant equipment Wind turbines Water technology / hydraulics 		<ul style="list-style-type: none"> Heating systems Climate control technology Pneumatic / industrial robots Power generation Mobile hydraulics Material handling Trucks / commercial vehicles Assembly packaging 	

* NPT male thread is standard connection on pressure ranges > 5000 PSI.

Control, Regulation, and Automation-

Parker's SensoControl controllers combine all of the functions of mechanical sensors, switches, and displays into a single intelligent instrument. These simple, robust solutions will accurately regulate the critical operating parameters (pressure, temperature, and tank level) for hydraulic and pneumatic systems.

Series	SCPSD Series Pressure Controller	SCTSD Series Temperature Controller	SCLSD Series Level Controller	SCLTSD Series Level / Temp Controller
Description	 			
	Continuous monitoring and display of media pressure	Continuous monitoring and display of media temperature	Continuous monitoring and display of media level	Continuous monitoring and display of media level and temperature
	<ul style="list-style-type: none"> Rotatable digital display Vibration resistant Rugged housing (IP67 rating) Vacuum to 9000 PSI measuring range 	<ul style="list-style-type: none"> Rotatable digital display Vibration resistant Rugged housing (IP67 rating) Flexible installation options 	<ul style="list-style-type: none"> Rotatable digital display Vibration resistant Rugged housing (IP67 rating) High/low level display 	<ul style="list-style-type: none"> Rotatable digital display Vibration resistant Rugged housing (IP67 rating) Dual function, single point access
Measurement range	Pressure: -14.5 to +60 PSI -14.5 to 250 PSI 0 to 1000 PSI 0 to 3000 PSI 0 to 5000 PSI 0 to 9000 PSI	Temperature: -40° F to +250°F	Level: 11.41 inches (290 mm) 17.33 inches (440 mm)	Level: 11.41 inches (290 mm) 17.33 inches (440 mm) Temperature: -5° F to +185° F
Port Configuration	7/16-20 UNF-2A male straight thread (SAE-4) 1/4" NPT male thread *	3/4-16 UNF-2A male straight thread (SAE-8) using adapter	1 1/16-12 UNF-2A male straight thread (SAE-12)	1 1/16-12 UNF-2A male straight thread (SAE-12)
Probe length	N/A	3.94 inches (100 mm) 5.90 inches (150 mm) 9.84 inches (250 mm)	14.6 inches (370 mm) 20.5 inches (520 mm)	14.6 inches (370 mm) 20.5 inches (520 mm)
Accuracy	± 0.5 % FS	± 1.0 % FS	± 0.2 inches (5 mm) ± 1.0 % FS	± 0.2 inches (5 mm) ± 1.0 % FS temperature
Electrical connections	M12x1 (std) **	M12x1 (std) **	M12x1	M12x1
Electrical output	<u>Option 1</u> 2 switching outputs <u>Option 2</u> 1 switching output + analog pressure signal (mA) <u>Option 3</u> 2 switching outputs + analog pressure signal (mA)	<u>Option 1</u> 2 switching outputs <u>Option 2</u> 1 switching output + analog temperature signal (mA) <u>Option 3</u> 2 switching outputs + analog temperature signal (mA)	<u>Option 1</u> 2 switching outputs <u>Option 2</u> 1 switching output + analog level signal (mA) <u>Option 3</u> 2 switching outputs + analog level signal (mA)	<u>Option 1</u> 2 temperature-switching outputs + 2 level-switching outputs <u>Option 2</u> 1 temperature-switching output + analog temperature signal (mA) + 1 level-switching output + analog level signal (mA) <u>Option 3</u> 2 temperature-switching outputs + analog temperature signal (mA) + 2 level-switching outputs + analog level signal (mA)
Applications include:	<ul style="list-style-type: none"> Test stands Hydraulic power units Material handling and lifting 		<ul style="list-style-type: none"> General machine construction Pneumatic and hydraulic industrial plant equipment Power generation 	

* NPT male thread is standard connection on pressure ranges > 5000 PSI.

** DIN EN 175301-803 Form A option is available on request.

Parker Fluid Connectors Group

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Your complete source for quality tube fittings, hose & hose fittings, brass fittings & valves, quick-disconnect couplings, and assembly tools, locally available from a worldwide network of authorized distributors.

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Available in inch and metric sizes covering SAE, BSP, DIN, GAZ, JIS, and ISO thread configurations, manufactured from steel, stainless steel, brass, aluminum, nylon, and thermoplastic.

Hose, Tubing, and Bundles:

Available in a wide variety of sizes and materials including rubber, wire-reinforced, thermoplastic, hybrid, and custom compounds.

Worldwide Availability:

Parker operates Fluid Connectors manufacturing locations and sales offices throughout North America, South America, Europe, and Asia-Pacific.

For information, call toll free...

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