SCP01 High Pressure 316 Stainless Steel Pressure Sensor

SCP01 Pressure Sensors are industrial pressure sensors offering long-term stability, resistance to interference and rugged construction. They are available in a wide range of standard and configured to order versions to meet your application needs.

These sensors are manufactured with the highest quality standards for reliable and repeatable measurements.

Features:

- Stainless steel body
- Compact construction
- Shock and vibration proof
- Resistant to pressure spikes
- Accuracy +/- 0.5% FS

Applications include:

- Test and measurement
- Hydraulic power units
- Power generation
- Mobile hydraulics

SCP01 Ordering Numbers

Pressure range (psi)	Electrical output	Electrical connection	Part number 1/4 NPT male	Part number 7/16-20UNF-2A, male SAE-4 with o-ring
0 to 250	4 - 20 mA, 3 wire	M12 X 1, 4 pin	**SCP01-0250P-25-07**	**SCP01-0250P-27-07**
0 to 1000	4 - 20 mA, 3 wire	M12 X 1, 4 pin	**SCP01-1000P-25-07**	**SCP01-1000P-27-07**
0 to 3000	4 - 20 mA, 3 wire	M12 X 1, 4 pin	**SCP01-3000P-25-07**	**SCP01-3000P-27-07**
0 to 5000	4 - 20 mA, 3 wire	M12 X 1, 4 pin	**SCP01-5000P-25-07**	**SCP01-5000P-27-07**
0 to 9000	4 - 20 mA, 3 wire	M12 X 1, 4 pin	**SCP01-9000P-25-07**	**N/A**

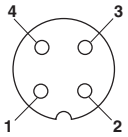
Operating information

Overload pressure	200% FS
Burst pressure	250% FS
Accuracy	+/- 0.5% FS
Protection class	IP67
Response time	< 1ms
Long term stability	< 0.1% FS/a
Load reversals	> 20 M
Electrical protection	Short circuit, reverse polarity, overload production
Supply voltage	9-30VDC
Temperature range:	
Environmental	-40°F to 185°F
Media, storage	-40°F to 257°F
Compensated	-4°F to 185°F
Temperature coefficient	< +/- 0.3% FS/10K
Vibration resistance	Meets IEC 60068-2-29
Shock resistance	Meets IEC 60068 2-32
EMI compatibility	DIN EN 61000-6-3, DIN EN 61000-6-2
Material - housing	304 SS
Material - fitting	630 SS
Material - seal	Fluorocarbon
Sensing element	Thin film (poly Si on SiO_2)
Pressure bore	0.024 in.
Long term stability	< 0.1% FS/a
Load reversals	> 20 M

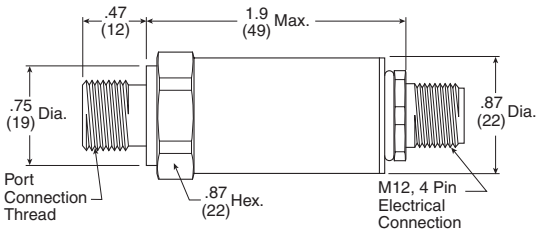
Sensor pin out with analog output

Pin #

1 Supply
2 Signal output
3 Ground
4 —



Dimensions



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