



SciLog® SciPres® Sensors

- sensor technology
- pre-calibrated single-use

The only pre-calibrated, single-use pressure sensors with a gamma-stable memory device that stores data of all calibration, and sensor specific information.

The SciLog® SciPres® combines pressure sensing capabilities and the convenience of disposability with easy setup. Each sensor is preprogrammed with a unique ID for easy traceability and data documentation when combined with the SciLog SciDoc software. Factory calibration data is also stored on each sensor's chip for out-of-box, plug and play use. The SciPres comes in 5 different sizes to fit a variety of tubing sizes: luer, $\frac{3}{8}$ " barb, $\frac{1}{2}$ " barb, $\frac{3}{4}$ " tri-clover and 1" tri-clover ladish.



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Features and Benefits

- Pre-calibrated
- NIST-traceable
- Certified calibration
- Gamma-stable
- NaOH stable
- Autoclave stable
- Comprehensive customer support

The SciPres fully integrates and optimizes most existing systems involving...

- Filtration
- Chromatography
- Reverse osmosis
- Fermentation
- Bags and manifolds

SciPres Range & Accuracy

- Pressure range: -5 to 60 psi
- Pressure accuracy
 - 2-pt. calibration: ± 0.3 psi, 0-30 psi range*
 - 3-pt. calibration: ± 0.3 psi, 0-60 psi range

* Accuracy values define the maximum expected error reported by functioning sensors.



Sensor Specifications

Sterilizability

- Can be sanitized IPA 70%
NaOH (0.1N - 1.0N)
- Autoclavable: (1x)
- Gamma stable: 25-45 kGy*

Material, Fluid Contact

- Medical grade polysulphone meets USP Class VI and FDA 21CFR177.1520
- All wetted materials are made of animal-free compounds

Sensor Type

- Medical grade
- Resistive
- Sensing element with on-chip temperature compensation

Sensor Microchip

- EPROM
- Stored sensor ID and calibration factor

Sensor Connector and Cables

- Dust and water proof IP67



Size, Part Codes and Specifications

Connector Type	Part Code (Packs of 5)		Compatible Tubing Sizes	Max. Flow Rate**			Max. Operating Pressure
	2-pt. Calibration	3-pt. Calibration		(L / min)	(gpm / psi)	(m ³ / h / bar)	
Luer	080-699PSX-5 080-699PSX-5-G	080-699PSX-3P-5 080-699PSX-3P-5-G	ID 0.03" to 0.31"	1.0	0.26	0.23	60 psi
3/8" Barb	080-694PSX-5 080-694PSX-5-G	080-694PSX-3P-5 80-694PSX-3P-5-G	ID 0.31" to 0.38"	8.0	2.11	1.81	60 psi
1/2" Barb	080-695PSX-5 080-695PSX-5-G	080-695PSX-3P-5 080-695PSX-3P-5-G	ID 0.50"	17.0	4.49	3.86	60 psi
3/4" Tri-Clover (TC)	080-696PSX-5 080-696PSX-5-G	080-696PSX-3P-5 080-696PSX-3P-5-G	Tubing with 3/4" TC	31.0	8.19	7.03	60 psi
1" Tri-Clover 'Ladish'	080-697PSX-5 080-697PSX-5-G	080-697PSX-3P-5 080-697PSX-3P-5-G	Tubing with 1" TC Ladish	60.0	15.9	13.6	60 psi

-G = Gamma parts

* At minimum dose, sensor accuracy is unaffected. At maximum dose accuracy may be reduced to ± 0.6 psi, 0-30 psi range. ** Maximum flow rate @ 1 psi

Monitor Specifications

Sensor Inputs

- Up to three simultaneously

Sensor Readout

- P1, P2 and P3
- Differential pressure (dP)
- Transmembrane pressure (TMP)
- Display of dP and TMP are user-selectable

Analog Outputs

- 4-20 mA outputs for P1, P2, P3 and dP or TMP
- 18 bit resolution

Digital Output

- RS-232

Alarm Outputs

- 4 TTL switches
- User-selectable hi/lo pressure limit settings for P1, P2, P3 and dP or TMP

Power Supply

- Universal power supply



Description	Part Code
SciPres® Sensor Monitor (includes three 6 ft cable connections)	080-690 (110V)
	081-690 (220V)
Replacement Part	Part Code
Sensor Cable (Sensor to Monitor) - 6 ft	090-0491
Sensor Cable (Sensor to Monitor)- 12 ft	090-0491-12

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