

**SciLog DN 3123: SciPres Pressure Sensor, 100 Hr. Exposure Test, 1.0 M NaOH
at 22 °C, 10 psi Pressure**

* SD = Standard Deviation

Test Data Sensor ID	Start		25 hr Test		50 hr Test		75 hr Test		100 hr Test		Sensor Average 30.00 psi	Sensor SD* 30.00 psi
	psi 0.00	psi 30.00	psi 0.00	psi 30.00	psi 0.00	psi 30.00	psi 0.00	psi 30.00	psi 0.00	psi 30.00		
S1-240058-1007	0.00	30.05	0.00	30.07	0.00	30.06	0.00	30.08	0.00	30.00	30.05	0.03
S1-240057-1007	0.01	30.19	0.00	30.20	0.02	30.18	0.02	30.22	0.00	30.21	30.20	0.02
S1-230238-1007	0.02	30.02	0.01	30.03	0.00	30.03	0.00	30.02	0.00	30.03	30.03	0.01
S1-240061-1007	0.00	30.03	0.01	30.07	0.00	30.06	0.00	30.06	0.00	30.05	30.05	0.02
S1-230107-1007	0.01	30.05	0.00	30.08	0.00	30.06	0.00	30.05	0.00	30.06	30.06	0.01
S1-230110-1007	0.00	30.05	0.00	30.04	0.01	30.03	0.00	30.03	0.00	30.02	30.03	0.01
Group Average	0.01	30.07	0.00	30.08	0.01	30.07	0.00	30.08	0.00	30.06		
Group SD*	0.01	0.06	0.00	0.06	0.01	0.05	0.01	0.07	0.00	0.07		

SUMMARY: The sensor response data, collected over 100 hours of continuous NaOH exposure, show a stable sensor accuracy and precision level over time. For individual sensors, the average accuracy measured @ 30.00 psi of applied pressure, stays well within established limits of +/- 0.3 psi. The same holds for the sensor group averages based on the responses of the five sensors. **The long-term stability of the sensor pre-calibration is verified by the above sensor data.**

NOTE: SciLog sensors have been designed for disposable, single-use applications. However, with proper care, the sensors can be re-used repeatedly while maintaining good accuracy and precision. If required, sensors can be re-calibrated.

CAUTION: Do Not Exceed Maximum Pressure of 60 psi

Test Protocol: Six pre-calibrated (30.00 psi) SciPres Luer pressure sensors were exposed to 1.0 molar NaOH for 100 hours at 22 °C and 10 psi back pressure. The 1.0 Molar NaOH solution was continuously recirculated (150ml/min) through the in-line sensors using a peristaltic pump. At 25 hour intervals, the test was briefly interrupted, the sensors were flushed 3x with distilled water and purged for 5 minutes with distilled water utilizing a peristaltic recirculation pump. The sensors were tested at 0.0 (ambient air) and at 30.00 psi applied pressure (nitrogen). All sensor responses were monitored with a NIST- traceable gauge. Sensors were tested with their original factory calibration; no re-calibration were carried out before or during the test run. All SciPres sensors were randomly selected from SciLog inventory.

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