



SciLog DN 3128: SciPres Full Scale (0-60psi) Accuracy and Precision Data

Test D SciPres Sensor ID	Sensor CF	Sensor PZ	Applied Sensor Pressure (psi)							
			P1 Port 0.00 Cal	P1 Port 5.00 NIST	P1 Port 10.00 NIST	P1 Port 15.00 NIST	P1 Port 30.00 Cal	P1 Port 45.00 NIST	P1 Port 50.00 NIST	P1 Port 60.00 NIST
S1-230223-1007	1.046	53	0.00	5.12	10.10	15.18	30.02	45.17	50.06	60.00
225	1.067	2	0.00	5.21	10.24	15.34	30.01	44.66	49.50	59.31
226	1.088	1	0.00	5.30	10.38	15.49	30.00	44.63	49.81	59.58
227	1.084	22	0.00	5.31	10.39	15.50	30.01	44.63	49.80	59.67
248	1.056	0	0.00	5.15	10.14	15.23	30.01	44.97	49.88	59.55
249	1.044	-3	0.00	5.11	10.07	15.14	30.00	45.22	50.22	60.14
250	1.060	1	0.00	5.20	10.21	15.31	30.01	44.76	49.59	59.10
251	1.061	1	0.00	5.18	10.19	15.28	30.02	44.85	49.72	59.27
S1-240003-1007	1.068	-1	0.00	5.22	10.24	15.33	30.01	44.61	49.41	59.59
4	1.053	-11	0.00	5.15	10.14	15.22	30.01	45.01	49.91	59.64
5	1.064	-21	0.00	5.22	10.24	15.32	30.00	44.59	49.49	58.79
7	1.043	5	0.00	5.13	10.10	15.17	30.00	45.12	50.06	59.90
39	1.042	-10	0.00	5.11	10.05	15.12	29.99	45.25	50.25	60.25
40	1.073	-4	0.00	5.26	10.31	15.41	30.00	44.66	49.09	59.29
41	1.039	4	0.00	5.10	10.05	15.12	30.01	45.33	50.32	60.33
42	1.063	7	0.00	5.21	10.22	15.31	30.00	44.65	49.48	59.46
43	1.042	-4	0.00	5.11	10.06	15.12	30.01	45.28	50.27	60.27
85	1.053	25	0.00	5.16	10.14	15.22	30.00	44.95	49.84	59.54
86	1.046	-3	0.00	5.12	10.08	15.14	30.00	45.13	50.10	60.00
87	1.025	-51	0.00	5.04	9.96	15.00	30.01	45.66	50.81	60.16
88	1.044	6	0.00	5.12	10.09	15.15	30.01	45.14	50.11	60.01
89	1.053	-16	0.00	5.15	10.13	15.19	30.00	44.92	49.81	59.56
Group Average	1.055	0.14	0.00	5.17	10.16	15.24	30.01	44.96	49.89	59.70
Group SD	0.015	19	0.00	0.07	0.11	0.13	0.01	0.29	0.38	0.41

Test Summary: For the group of 22, pre-calibrated SciPres (Luer) sensors, the average sensor accuracy, as indicated by the group average, is within the established limits of +/- 0.35 psi in the range from 0 to 30 psi and within +/- 0.60 psi in the 30 to 60 psi range. The largest sensor to sensor variance occurred in the 50 to 60 psi range. The sensor to sensor reproducibility is indicated by the group standard deviation (SD) **The collected data show accuracy and precision levels of sensors and monitors to be within the established levels.**

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: Twenty-two SciPres Luer sensors were previously calibrated both at 0.00 and at 30.00 psi using nitrogen gas. Utilizing a NIST-traceable pressure gauge, the sensor response to eight different, applied pressures were recorded. The applied pressures (nitrogen gas) included 0.00, 5.00 psi, 10.00, 15.00, 30.00, 45.00, 50.00 and 60.00 psi. All sensor pressure responses were collected with a previously calibrated SciPres monitor (S/N: SP0807D-1052). All sensor responses were measured against a digital NIST-traceable pressure gauge.

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