

Shear Probe Calibration Report

Rockland Scientific International Inc.
520 Dupplin Road, Victoria BC. V8Z1C1
Phone: (250) 370-1688 Fax: (250) 370-0234

Date	2019-04-05
Temperature (deg C)	20.0
Operator	S.Yasuda
Rotation rate (Hz)	1
Low pass filter (Hz)	5
High pass filter (Hz)	NA
Total Gain	1

Probe serial #	M1122
Probe type	3/8"
Capacitance (nF)	1.075
Resistance (G-Ohms)	>200
Time const (s)	

Start time	10:38
End time	11:04
Soak time (hrs)	1
Pressure time (hrs)	1
Pressure (psi)	8700

Amplifier Type	Charge
Amp. Capacitance(nF)	1.5

Sensitivity (Volts/(m/s)^2)=	0.0627
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NOTE: recalibration : previous sensitivity s=0.0645 on 2015-10-06

Head	Angle	Sin(2*A)	Vflow	Vno flow	Vprb	hflow	U	Yraw	Yfit	Yfit-Yraw	Slope
[cm]	[deg]		[mV rms]	[mV rms]	[V rms]	[cm of h2O]	[m/s]	[V/U*U]	[V/U*U]	[1/1000]	[V/m^2/s^2]
2.522	10.0	0.342	11.00	0.300	0.0113	2.522	0.703	0.0228	0.0226	-0.2772	0.0646
2.532	8.0	0.276	8.87	0.209	0.0091	2.532	0.705	0.0183	0.0183	0.0207	0.0639
2.532	6.0	0.208	6.75	0.198	0.0069	2.532	0.705	0.0140	0.0140	-0.0005	0.0634
2.537	4.0	0.139	4.59	0.160	0.0048	2.537	0.706	0.0095	0.0096	0.0989	0.0630
2.535	2.0	0.070	2.45	0.187	0.0026	2.535	0.705	0.0053	0.0053	-0.0272	0.0628
2.530	0.0	0.000	0.38	0.223	0.0006	2.530	0.705	0.0012	0.0009	-0.3197	0.0627
2.545	-2.0	-0.070	2.06	0.250	0.0023	2.545	0.707	-0.0046	-0.0035	1.1496	0.0628
2.550	-4.0	-0.139	3.53	0.357	0.0039	2.550	0.707	-0.0078	-0.0078	-0.0729	0.0630
2.553	-6.0	-0.208	5.65	0.349	0.0060	2.553	0.708	-0.0120	-0.0122	-0.2072	0.0634
2.558	-8.0	-0.276	7.75	0.374	0.0081	2.558	0.708	-0.0162	-0.0165	-0.3067	0.0639
2.553	-10.0	-0.342	9.95	0.418	0.0104	2.553	0.708	-0.0207	-0.0208	-0.0579	0.0646

