

Shear Probe Calibration Report

Rockland Scientific International Inc.
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Date	2019-04-05
Temperature (deg C)	21.8
Operator	S. Yasuda
Rotation rate (Hz)	1
Low pass filter (Hz)	5
High pass filter (Hz)	NA
Total Gain	1

Probe serial #	M1133
Probe type	3/8"
Capacitance (nF)	1.099
Resistance (G-Ohms)	>200
Time const (s)	

Start time	12:17
End time	12:46
Soak time (hrs)	1
Pressure time (hrs)	1
Pressure (psi)	8700

Amplifier Type	Charge
Amp. Capacitance(nF)	1.5

Sensitivity (Volts/(m/s)^2)=	0.0459
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NOTE: recalibration , previous S=0.0451 on 2018-06-25

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 h20]	[m/s]	[V/U*U]	[V/U*U]	[1/1000]	[V/m^2/s^2]
2.535	10.0	0.342	8.08	0.102	0.0082	2.535	0.705	0.0165	0.0166	0.1536	0.0466
2.522	8.0	0.276	6.64	0.084	0.0067	2.522	0.703	0.0136	0.0135	-0.0683	0.0464
2.530	6.0	0.208	4.97	0.065	0.0050	2.530	0.705	0.0101	0.0104	0.2416	0.0462
2.530	4.0	0.139	3.56	0.095	0.0037	2.530	0.705	0.0074	0.0072	-0.1480	0.0461
2.535	2.0	0.070	1.96	0.133	0.0021	2.535	0.705	0.0042	0.0040	-0.1863	0.0460
2.530	0.0	0.000	0.40	0.177	0.0006	2.530	0.705	0.0012	0.0008	-0.3522	0.0459
2.535	-2.0	-0.070	1.19	0.215	0.0014	2.535	0.705	-0.0028	-0.0024	0.4356	0.0460
2.548	-4.0	-0.139	2.49	0.232	0.0027	2.548	0.707	-0.0054	-0.0056	-0.1374	0.0461
2.550	-6.0	-0.208	4.04	0.272	0.0043	2.550	0.707	-0.0086	-0.0088	-0.1348	0.0462
2.555	-8.0	-0.276	5.66	0.299	0.0060	2.555	0.708	-0.0119	-0.0119	-0.0006	0.0464
2.548	-10.0	-0.342	7.26	0.322	0.0076	2.548	0.707	-0.0152	-0.0150	0.1967	0.0466

