

Excalibur Engineering

9201 Irvine Blvd
Irvine, CA 92618
Phone : (949) 454-6603
Fax : (949) 454-6642

Certificate Of Calibration

Customer SILENCER RESEARCH
Report # 9351-2
Date Received WEDNESDAY, JANUARY 3, 2007
Manufacturer BRUEL & KJAER
Model # 4136
Description MICROPHONE

Dept. N/A
Bar Code #
P.O. # JOHN T
Serial # 176004
Asset # 21592

Calibration Information

Date Calibrated 1/12/2007 Calibration Due Date 1/12/2008 Calibration Interval 12
Maintenance Procedure 1371
Temperature 70 ° F Humidity 40 % Calibration Performed By 9
Accuracy ±0.12 dB

Condition Received

Received In Tolerance
Remarks Microphone Sensitivity @ - 58.0dB RE 1v/Pa See attached chart for frequency response curve up to 40KHz

Condition Returned


Returned In Tolerance
Remarks

Standards Employed

ID #	Manufacturer	Model #	Description	Calibration Expires
089	BRUEL & KJAER	4228	PISTONPHONE	12/2/2007
043	BRUEL & KJAER	4190	1/2" CONDENSER MICROPHONE	4/24/2007
051	BRUEL & KJAER	2639	MICROPHONE PREAMPLIFIER	1/16/2007
949	BRUEL & KJAER	2636	MEASURING AMPLIFIER	12/21/2007
923	BRUEL & KJAER	2706	POWER AMPLIFIER	5/16/2007
713	FLUKE	8920A	20 MHZ TRUE RMS VOLTMETER	7/13/2007
655	BRUEL & KJAER	4142	MICRPHN CALIB APPARATUS	6/1/2010
941	BRUEL & KJAER	1049	SINE & NOISE GENERATOR	9/27/2007
654	BRUEL & KJAER	2307	LEVEL RECORDER	7/26/2007

Excalibur Engineering, Inc. certifies that the instrument specified above meets the manufacturer's specifications and has been calibrated using Standards and Instruments also listed above whose accuracies are traceable to the National Institute of Standards and Technology(NIST), and the calibration systems and records are in compliance to ISO-10012 and ANSI Z540-1-1994.

This certificate/report shall not be reproduced without written approval of Excalibur Engineering, Inc.


Approved By

 1-12-07

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Certificate Of Calibration

Customer	SILENCER RESEARCH	Dept.	N/A
Report #	9351-4	Bar Code #	
Date Received	THURSDAY, JANUARY 11, 2007	P.O. #	JOHN T
Manufacturer	BRUEL & KJAER	Serial #	757225
Model #	4220	Asset #	54524
Description	PISTONPHONE		

Calibration Information

Date Calibrated	1/12/2007	Calibration Due Date	1/12/2008	Calibration Interval	12
Maintenance Procedure	1256				
Temperature	24 ° C	Humidity	22 %	Calibration Performed By	9
Accuracy	±0.15 dB				

Condition Received

Received In Tolerance
Remarks See Attached report

Condition Returned

Returned In Tolerance
Remarks

Standards Employed

ID #	Manufacturer	Model #	Description	Calibration Expires
026	BRUEL & KJAER	4144	1" CONDENSER MICROPHONE	4/24/2007
051	BRUEL & KJAER	2639	MICROPHONE PREAMPLIFIER	1/16/2007
089	BRUEL & KJAER	4228	PISTONPHONE	12/2/2007
949	BRUEL & KJAER	2636	MEASURING AMPLIFIER	12/21/2007
938	AGILENT	8903B	20HZ100KHZ AUDIO ANALYZER	12/21/2007
713	FLUKE	8920A	20 MHZ TRUE RMS VOLTMETER	7/13/2007
1031	DRUCK INCORPORATED	DPI 705	DIGITAL PRESS. INDICATOR	11/27/2007

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Certificate Of Calibration

Customer	SILENCER RESEARCH	Dept.	N/A
Report #	9351-5	Bar Code #	
Date Received	TUESDAY, JANUARY 30, 2007	P.O. #	JOHN T
Manufacturer	BRUEL & KJAER	Serial #	670500
Model #	2209	Asset #	54653
Description	SOUND LEVEL METER		

Calibration Information

Date Calibrated	1/30/2007	Calibration Due Date	1/30/2008	Calibration Interval	12
Maintenance Procedure	4226				
Temperature	25 ° C	Humidity	33 %	Calibration Performed By	7
Accuracy	ANSI Type 1				

Condition Received

Received In Tolerance
Remarks Unit meets ANSI type 1 specifications under laboratory conditions.

Condition Returned

Returned In Tolerance
Remarks

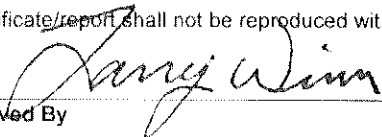
Standards Employed

ID #	Manufacturer	Model #	Description	Calibration Expires
043	BRUEL & KJAER	4190	1/2" CONDENSER MICROPHONE	4/24/2007
878	BRUEL & KJAER	4226	SLM CALIBRATOR	11/28/2007
713	FLUKE	8920A	20 MHZ TRUE RMS VOLTMETER	7/13/2007

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JAN 30 2007