

Certificate of Calibration

Certificate No: 5509786 BLH040018

Submitted By: [REDACTED] [REDACTED]
[REDACTED]
[REDACTED]

Serial Number:	BLH040018	Date Received:	1/15/2015
Customer ID:		Date Issued:	1/24/2015
Model:	SOUNDPRO DL-1-1/3 SLM	Valid Until:	1/24/2016

Test Conditions:	Model Conditions:
Temperature: 18°C to 29°C	As Found: OUT OF TOLERANCE
Humidity: 20% to 80%	As Left: IN TOLERANCE
Barometric Pressure: 890 mbar to 1050 mbar	

SubAssemblies:	
Description:	Serial Number:
MICROPHONE B&K 4936 1/2 IN. ELECTRET TYPE 1 PREAMP	2614714 0408 1878

Calibration Procedure: 53V899

Reference Standard(s):			
I.D. Number	Device	Last Calibration	Date Calibration Due
EF000100	QUEST-CAL	6/3/2014	6/3/2015
ET0000556	B&K ENSEMBLE	6/19/2014	6/19/2015

Measurement Uncertainty:

+/- 2.2% ACOUSTIC (0.19DB)
 Estimated at 95% Confidence Level (k=2)

Calibrated By: Paul M. Wegmann 1/24/2015
 PAUL WEGMANN Service Technician

Reviewed/Approved By: _____ 1/24/2015
 Technical Manager/Deputy

This report certifies that all calibration equipment used in the test is traceable to NIST or other NMI, and applies only to the unit identified under equipment above. This report must not be reproduced except in its entirety without the written approval of 3M Detection Solutions.

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(A) indicates out of tolerance condition

<u>Test Type</u>	<u>Nominal</u>	<u>Tolerance-</u>	<u>Tolerance+</u>		<u>As Found</u>	<u>As Left</u>	<u>Unit</u>
Linearity/30 to 120/114dB	114.0	113.8	114.2	A	114.5	114.1	dB
Linearity/20 to 110/104dB	104.0	103.8	104.2	A	104.5	104.1	dB
Linearity/10 to 100/94dB	94.0	93.7	94.3	A	94.5	94.1	dB
Linearity/0 to 90/84dB	84.0	83.6	84.4	A	84.5	84.1	dB
Linearity/-10 to 80/74dB	74.0	73.5	74.5		74.5	74.1	dB
A Weighting/125Hz	97.9	96.9	98.9		98.7	98.3	dB
A Weighting/250Hz	105.4	104.4	106.4		106.1	105.7	dB
A Weighting/500Hz	110.8	109.8	111.8		111.4	111.1	dB
A Weighting/1kHz	114.0	113.5	114.5		114.5	114.1	dB
A Weighting/2kHz	115.2	114.2	116.2		115.5	115.1	dB
C Weighting/31.62Hz	111.0	110.5	111.5		111.3	111.3	dB
C Weighting/7943Hz	111.0	110.5	111.5		111.1	111.1	dB
Z Weighting/10Hz	114.0	113.5	114.5		114.1	114.0	dB
Flat Response/19950Hz	114.0	113.7	114.3		113.8	113.7	dB
(1/1) 16Hz	114.0	113.8	114.2		113.9	114.0	dB
(1/1) 31.5Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 63Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 125Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 250Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 500Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 1000Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 2000Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 4000Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 8000Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/1) 16000Hz	114.0	113.8	114.2		113.8	113.9	dB
(1/3) 12.5Hz	114.0	113.8	114.2		113.8	113.8	dB
(1/3) 16Hz	114.0	113.8	114.2		113.9	113.9	dB
(1/3) 20Hz	114.0	113.8	114.2		114.0	113.9	dB
(1/3) 25Hz	114.0	113.8	114.2		113.9	113.9	dB
(1/3) 31.5Hz	114.0	113.8	114.2		113.9	113.9	dB
(1/3) 40Hz	114.0	113.8	114.2		113.9	114.0	dB
(1/3) 50Hz	114.0	113.8	114.2		113.9	114.0	dB
(1/3) 63Hz	114.0	113.8	114.2		113.9	114.0	dB
(1/3) 80Hz	114.0	113.8	114.2		113.9	114.0	dB
(1/3) 100Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/3) 125Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/3) 160Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/3) 200Hz	114.0	113.8	114.2		114.0	114.0	dB
(1/3) 250Hz	114.0	113.8	114.2		114.0	114.0	dB

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(1/3) 315Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 400Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 500Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 630Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 800Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 1000Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 1250Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 1600Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 2000Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 2500Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 3150Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 4000Hz	114.0	113.8	114.2	113.9	114.0	dB
(1/3) 5000Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 6300Hz	114.0	113.8	114.2	113.9	113.9	dB
(1/3) 8000Hz	114.0	113.8	114.2	113.9	114.0	dB
(1/3) 10000Hz	114.0	113.8	114.2	114.0	114.0	dB
(1/3) 12500Hz	114.0	113.8	114.2	113.8	113.9	dB
(1/3) 16000Hz	114.0	113.8	114.2	113.8	113.8	dB
(1/3) 20000Hz	114.0	113.7	114.3	113.7	113.7	dB

* indicates non accredited