

CERTIFICATE OF CALIBRATION



ORIX

オリックス・レンテック株式会社



Customer Name

LIGHTHOUSE Inc.

Division : Calibration Consignment Certificate Number : KJ-P0283932-20220407-00-N-0

Description : SOUND LEVEL METER

Model No. : NL06

Manufacturer : RION

Customer ID No. : LHQ-01

Serial No. : 01193094

Calibration Date : 07-Apr-2022

Location of : Tokyo Technical Center

Calibration 3-25-3 Kanamori, Machida-City, Tokyo 194-8585

Conditions : Temperature 24 °C Humidity 51 %R. H. Calibrated by : 314356

Calibration Status : Non Adjustment

Result : Pass

Location of Issue : Tokyo Technical Center
3-25-3 Kanamori, Machida-City, Tokyo 194-8585
TEL : +81-42-799-0586 FAX : +81-42-799-6154
<https://www.orixrentec.jp/>

ORIX Rentec Corporation certifies that the above instrument was calibrated according to our calibration procedures.

The standards used for this calibration are controlled by official regulations for standards and traceable to National Standards directly or through manufacturers on a regular basis.

The National Standards are such as AIST(National Institute of Advanced Industrial Science and Technology), and public calibration entities in other countries which participate in BIPM(Bureau International des Poids et Mesures), such as NIST(National Institute of Standards and Technology).

Date of issue : 11-Apr-2022

Head of Issue

ORIX Rentec Corporation

General Manager Quality Assurance Department : Ryoetsu Nakagawa

Ryoetsu Nakagawa

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RESULT OF CALIBRATION



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Calibration Date : 07-Apr-2022
 Model No. : NL06
 Customer ID No. : LHQ-01
 Serial No. : 01193094
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【Calibration Equipments Used】

	Description			Manufacturer		
	Model No.	Serial No.	Asset No.	Cal. Lab.	Cal. Date	Cal. Due. Date
1	DIGITAL MULTIMETER			Keysight Technologies		
	34401A	US36012821	16825838	ORIX Rentec	21-Dec-2021	31-Dec-2022
	Certificate Number(Issue No) : SK-16825838-20211221-00-N-0					
2	SOUND CALIBRATOR			B & K		
	4226	2613435	39715206	ORIX Rentec	08-Mar-2022	31-Mar-2023
	Certificate Number(Issue No) : SK-39715206-20220308-00-N-0					
3	PISTONPHONE			B & K		
	4228	2570987	39713862	ORIX Rentec	24-Nov-2021	30-Nov-2022
	Certificate Number(Issue No) : SK-39713862-20211124-00-N-0					
4	TEST SIGNAL GENERATOR			RION		
	RSN101	10370025	39774443	ORIX Rentec	01-Feb-2022	31-Jan-2023
	Certificate Number(Issue No) : SK-39774443-20220201-00-N-0					

This instrument was calibrated with the following items.

Description	Model No.	Serial No.	Customer ID No.
MICROPHONE	UC52	147407	---
PREAMPLIFIER	NH19	90623	---

【Calibration Item】

1. ACOUSTIC CHARACTERISTIC TEST

Frequency	Input	Accuracy	Tolerance		Dis. Val.	Judge
			Lower Limit	Upper Limit		
250 Hz	F 124 dB	±1.5 dB	122.5 dB	125.5 dB	124.3 dB	Pass
250 Hz	C 124 dB	±1.5 dB	122.5 dB	125.5 dB	124.2 dB	Pass
250 Hz	A 124 dB	-8.6 dB±1.5 dB	113.9 dB	116.9 dB	115.6 dB	Pass
1000 Hz	F 94 dB	±1.5 dB	92.5 dB	95.5 dB	93.9 dB	Pass
1000 Hz	C 94 dB	±1.5 dB	92.5 dB	95.5 dB	93.9 dB	Pass
1000 Hz	A 94 dB	±1.5 dB	92.5 dB	95.5 dB	93.9 dB	Pass

2. DYNAMIC CHARACTERISTIC TEST

Condition Frequency:1000Hz

Mode	Input	Accuracy	Tolerance		Dis. Val.	Judge
			Lower Limit	Upper Limit		
FAST	94 dB	-1.0 dB,-2.0 dB+1.0 dB	91.0 dB	94.0 dB	93.0 dB	Pass
SLOW	94 dB	-4.0 dB±2.0 dB	88.0 dB	92.0 dB	89.9 dB	Pass

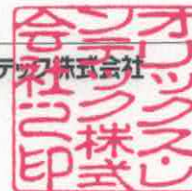
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RESULT OF CALIBRATION



ORIX

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3. CALIBRATION OUTPUT

Condition Pass or fail is not judged because there is no precision in the specification.		
STD. Value	Data	Judge
1000 Hz	1011 Hz	-

4. ANALOG OUTPUT (DCV)

Accuracy ± (mV)						
Condition Meter F.S.						
STD. Value	Accuracy	Lower Limit	Tolerance	Upper Limit	Data	Judge
2.500 V	±25	2.475 V		2.525 V	2.496 V	Pass

5. ANALOG OUTPUT (ACV)

Accuracy ± (mV)						
Condition Meter F.S.						
STD. Value	Accuracy	Lower Limit	Tolerance	Upper Limit	Data	Judge
1.000 Vrms	±50	0.950 Vrms		1.050 Vrms	0.992 Vrms	Pass

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CERTIFICATE OF TRACEABILITY



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【Reference Standards】

	Description			Manufacturer			
	Model No.	Serial No.	Asset No.	Cal. Lab.	Cal. Date	Cal. Due. Date	
1	SOUND CALIBRATOR			B & K			
	4226	1899885	16211054	JQA	02-Feb-2022	31-Dec-2022	
	Certificate Number(Issue No) : 1351-03782						
2	PISTONPHONE			B & K			
	4228	2281302	24675639	JQA	10-Sep-2021	30-Sep-2022	
	Certificate Number(Issue No) : 1351-02097						
3	CESIUM FREQUENCY STANDARD			Microsemi			
	5071A	US49353635	37649010	Keysight Technologies International	25-Jun-2021	30-Jun-2022	
	Certificate Number(Issue No) : 211703-000						
4	CALIBRATOR			FLUKE			
	5720A	7556204	22643571	ORIX Rentec M・S・C	02-Sep-2021	30-Sep-2022	
	Certificate Number(Issue No) : 21S0026						
5	AC MEASUREMENT STANDARD			FLUKE			
	5790A	5885031	13245899	ORIX Rentec M・S・C	14-Apr-2020	30-Apr-2021	
	Certificate Number(Issue No) : 20S0055						

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