وزارة التعليم العالى والبحث العلمى
المعهد القومى للمعايرة

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TEST REPORT
تقرير إختبار

Report No:	8661/12T001/5/222/2023

- **NIS Lab** أسم المعمل : **Acoustics Metrology Lab.**
- **Issued For** صادر الى : **الشركة العالمية لأنظمة الأمن والسلامة**
  16ج - المنطقة الصناعية الجنوبية - العاشر من رمضان - الشرقية
- **Contact Information of the Customer** بيانات التواصل بالزبون : **01279279357**
- **Location of Test** مكان اجراء الإختبار : NIS
- **Device Description** اسم ووصف الجهاز تحت الإختبار : **Fire Alarm Bell connected with Fire Alarm Control Panel**
  - **Manufacturer** اسم الشركة المنتجة : NEVERFIRE ASSS (EGYPT)
  - **Model/Type** موديل الجهاز : NFC-506AB
  - **Serial Number** الرقم المسلسل للجهاز : 506AB2310001
  - **Code** كود : 506231000

Date of Receipt تاريخ الاستلام	: 13/11/2023	**Date of Test** تاريخ المعايرة	: 21/11/2023
Issue Date تاريخ الإصدار	: 26/11/2023	**Due Date** تاريخ إعادة المعايرة	: -----

Approved by

Head of Laboratory
Ass. Prof. Dr. Mohammed Abd-Elbasseer

NIS President
Prof. Dr. Noha E. Khaled

TEST REPORT
تقرير إختبار

• Report No.	8661/12T001/5/222/2023		
• Customer	الشركة العالمية لأنظمة الأمن والسلامة 16ج - المنطقة الصناعية الجنوبية - العاشر من رمضان - الشرقية		
• Loaction	NIS	• Date of Receipt	13/11/2023
• Tested by	Dr. Mohammed Abd-Elbasseer	• Date of Test	21/11/2023
• Number of pages	3	• Issue Date	26/11/2023
• File name	-----	• Due Date	-----

• Device Under Testing

Device Description	Fire Alarm Bell connected with Fire Alarm Control Panel
Manufacturer	NEVERFIRE ASSS (EGYPT)
Model/Type	NFC-506AB
Serial Number	506AB2310001
Code	506231000

• Enviromental Conditions

Temperature (°C)	(30.0±0.5)	Humidity (%)	(50.0±5.0)
Pressure (kPa)	(101.50±0.02)	-----	-----

• Testing Method

The testing was carried out according to ISO 3741:2010 " Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure — Precision method for reverberation test rooms"

• Traceability

Description of Reference Device	Serial Number	Calibration Date	Certificate No.	Expanded Uncertainty	Traceability
Sound Level Analyzer	3030421	05/07/2023	NIS/12/SLM/01	0.15 dB	NIS
Multifunction Acoustic Calibrator	2712466	06/06/2023	NIS/12/MAC//02/2023	0.24 dB	NIS

• Uncertainty Statement

The combined standard uncertainty is calculated based on ISO 3741:2010 which include at least the standard uncertainty reported for the reference standard, the standard uncertainty for the measurement process, the standard uncertainty for any uncorrected errors. The combined standard uncertainty is multiplied by a coverage factor (k) of 2 to provide an expanded uncertainty, which defines a level of confidence of approximately 95 percent (95.45 %). The expanded uncertainty presented in this certificate/report is consistent with the ISO/IEC GUIDE 98-3:2008 "Uncertainty of measurement — Part 3: Guide to the expression of uncertainty in measurement (GUM:1995)".

• ISO 17025 Statement

All NIS laboratories implement the NIS unified quality management system which was built to be in compliance with ISO 17025:2017. It is the customer responsibility to indicate - on the calibration label - the due date for calibration in accordance with the aforementioned ISO/SOP calibration procedure and in compliance with ISO 17025:2017.

Tested by

Dr. Mohammed Abd-Elbasseer

Reviewed by

Ass. Prof. Dr. Abd-Elfattah A. Mahmoud

TEST REPORT
تقرير إختبار

Certificate No.	8661/12T001/5/222/2023	Code	506231000
• Conformity Statement			
Conformity Criterion	Not applicable		
Decision	-----		
• Tested Items			

- Sound Pressure Level Output (dB)
- Sound Power Level Output (dB)

• Testing Results

One-third octave band center frequency (Hz)	L_P (dB)	L_W (dB)	σ_{tot} (dB)	L_{AEQ} (dB)	L_{WA} (dB)
125	59.6	60.2	3.3	100.2	105.4
160	48.7	49.8	1.8		
200	55.7	57.8	1.4		
250	55.9	57.1	1.3		
315	54.7	54.5	0.9		
400	62.7	62.3	0.7		
500	73.7	73.5	0.5		
630	74.5	74.5	0.8		
800	73.0	73.8	0.3		
1000	66.2	67.6	0.5		
1250	74.8	76.5	0.5		
1600	82.5	84.4	0.5		
2000	74.2	76.2	0.3		
2500	88.8	91.2	0.7		
3150	81.3	84.3	0.3		
4000	90.9	94.5	0.5		
5000	90.2	94.9	0.7		
6300	95.7	101.4	0.8		
8000	92.7	99.6	0.7		
10000	90.6	99.0	0.6		

The measured and calculated items:

- L_P is the measured band average sound pressure level produced by the alarm in dB.
- L_w the calculated sound power level produced by the alarm in dB (ref. 1pW), in each one-third octave band center frequency.
- L_{AEQ} the measured A-weighted eqivalent sound level produced by the alarm in dB.
- L_{WA} the calculated A-weighted sound power level produced by the alarm in dB (ref.1pW).
- σ_{tot} is the combined uncertainty in dB.

Tested by
Dr. Mohammed Abd-Elbasseer

Reviewed by
Ass. Prof. Dr. Abd-Elfattah A. Mahmoud