Certificate of Calibration

Issued by University of Salford (Acoustics Calibration Laboratory)
UKAS ACCREDITED CALIBRATION LABORATORY NO. 0801

Page 1 of 2

APPROVED SIGNATORIES

Claire Lomax [x]

Andy Moorhouse []

Gary Phillips []

Danny McCaul []

C. Canon

UKAS CALIBRATION 0801

University of Salford MANCHESTER

acoustic calibration laboratory

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Certificate Number: 04661/1

Date of Issue: 10 March 2020

CALIBRATION OF A SOUND CALIBRATOR

FOR:

Enfonic Ltd

Unit 2A

Century Business Park

Dublin D11 T0HV

FOR THE ATTENTION OF:

Gary Duffy

DESCRIPTION:

Calibrator with housing for one-inch

microphones and adaptor type UC 0210 for

half-inch microphones.

MANUFACTURER:

Bruel & Kjaer

TYPE:

4231

SERIAL NUMBER:

3005620

DATE RECEIVED:

04/03/2020

DATE OF CALIBRATION:

10/03/2020

TEST PROCEDURE:

CTP06 (Laboratory Manual)

Test Engineer (initial):

Name:

Gary Phillips

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Page 2 of 2

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MEASUREMENTS

The sound pressure level generated by the calibrator was measured using a calibrated, WS2P condenser microphone as specified in this certificate. The calibration was carried out with the calibrator in the half-inch configuration.

Five determinations of the sound pressure level, frequency and total distortion were made.

The results have been corrected to the reference pressure of 101.325 kPa using manufacturer's data.

RESULTS

Coupler configuration: Half-inch

Microphone type: GRAS 40AG

Output level (dB re 20μ Pa): $94.07 dB \pm 0.14 dB$

Frequency (Hz): $999.96 \text{ Hz} \pm 0.12 \text{ Hz}$

Total Distortion (%): $0.32\% \pm 0.32\%$

Average environmental conditions at the time of measurement were:

Pressure: $99.243 \text{ kPa} \pm 0.021 \text{ kPa}$

Temperature: $22.1 \,^{\circ}\text{C} \pm 0.4 \,^{\circ}\text{C}$ Relative humidity: $50.2 \,^{\circ}\text{M} \pm 1.9 \,^{\circ}\text{M}$

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

All measurement results are retained at the acoustic calibration laboratory for at least four years.

----END OF CERTIFICATE----

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to the units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full except with the prior written approval of the issuing laboratory.



Before Calibration

FS Form-003 2250 Based NMT PM Report

1. Site Information					
1.1 CMS Ticket #348585	1		1.2 Airport/Urban	A instruction	1
1.3 Inspection	-		•	Airport	
1.5 Site Number NMT06			1.4 Location	St Davids	
	1/David Courtney	7	1.6 Date	10-Sep-20	-
1.8 Normal NMT Operation Interrupted		44.40	7 _	<u> </u>	1
1.5 Normal Nivi Operation interrupted	From	14.40] To	14:50:00	
7 Occupational Health and Cafet, Ch.	-1-			(1)	
7. Occupational Health and Safety Che				*	
Environmental exposure -	Appropriate ciotal	ng, wide brimmed hat	, sunscreen, drinking fluids	Yes	8
Been and Brokestine Errichest	Jesignated work a	ea - Use of witches h	ats, barricades as cordons	No	
Personal Protective Equipment (P				Yes	
*	Animal hazards		Traffic hazards	No	
	leight / door work	No .	Work within 2M of edge	No	
	Ladder used		Hamess used	No	
	Pole erected	1,10	Support used	No	
,	personnel required		Anchor points	No	
	ıal handling issues	Yes	Emergency equipment	No	
Contact with electricity			Residual current devices	No	
Structural earthing of build	•		Risk of public injury	· No	
Working alone / isolated – means			New hazards identified	No	E
Securit	y or access issues	No	9		
Comments: Site Secure and no safety concern	1			*	
					50
			9 5	81	
11. Mechanical Inspection					
Site Condition:	Good		· /		
Fence Condition:	Good		✓ /		
Cabinet Condition:	Good				
Moisture Inside NMT:	None				
Insect Infestation:	None	7			
Windshield Foam:	Good		✓		
Bird Spike:	Good	100			
Lightning Rod:	Good		- V		
Earth Connection:	Good				
Pole and Pole Mounting Condition:	Good	·			
Conduit Condition:	Good				
Solar Panel Condition	NA NA				
Solar Battery Cabinet Condition:	NA NA	<u></u>			
Cleaned Solar Panel:	NA NA				
Battery Terminal Check:	Yes				
GPS Coordinates: Altitude:		Latitude:	53,38148	1	0.040740
or o oos an area.	7110	Lautude.	33,36 46	Longtitude:	-6.216719
12. Electrical Inspection					
11.1 NMT LCD Display: Good	11			-	
11.2 Door Switch: Good			-		
1.11 NMT Model: 3639-A	1.9 NMT SNo:	3023702			
1.10 2250 SNo: 3008396	2250 Type:	G4 Light	11.5 Firmware Version:	4	1 5
2000000	Cal Report No:	NA NA	Lab Certificate Date:	NA NA	
	Cai Nopoli 140.	NA.	Lab Certificate Date.	NA NA	
Current Microphone Model: 4952	1.12 SNo:	3037363			,
1,13 Modern Type: Other	Modem SNo:	14.1	IMEI Number:		
27	i madam dita.		inici i dalibei.[-
Pistonphone/ Calibrator Information					
2.1 Pistonphone/Calibrator Model:	B&K Type 4	4231 Calibrator			
2.1 Serial Number: 3005620	Cal Report No:	04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB): 94.07			2.3 Atmos. Pressure (hPa)	3/ 10/2020	
	1		. Pressure Correction (dB)		
		2,7 M(103)	. 1 1999ano Gorrection (db)[
Backup Battery Check:	1				
4	1				
Battery voltage with Load & Mains (13 to 14V					
at -10°C to 40°C):	14.39		5/		
Battery voltage with load only, wait for 5					
minutes before measuring (≥12V):	14.01				
Existing Microphone Calibration					

2.6 Expected Calibration Level (dB):	94	Calibrating Level (dB):	93,45
Sensitivity (mV/Pa):	26.69	New Sensitivity (mV/Pa):	27.12
Deviation from initial (dB):	-0.23	Deviation from last (dB):	-1.33
Deviation from last (dB):	-0.1	Deviation from initial (dB):	-0.09
		CIC Calibration	
		CIC Reference Ratio (dB)	-36.48
	Control of the Control	CIC Ratio (dB)	-36.48
		CIC Result	Passed
250 Replacement (New)	No		
2250 SNo:			Charles and
2250 Type:	Cal Report No :	Lab Certificate Date:	
		Firmware Version:	0.00
3. Microphone Replacement (New)	No		3100
Microphone Model:	SNo:		
coustical Calibration:			31
Before Calibration		After Calibration	1987
Expected Calibration Level (dB):	CONTROL SECTION OF THE SECTION OF TH	Calibrating Level (dB):	
Sensitivity (mV/Pa):		New Sensitivity (mV/Pa):	
Deviation from initial (dB):		Deviation from last (dB):	W12 (1)
Deviation from last (dB):		Deviation from initial (dB):	
	English Students		5 (54-
		CIC Calibration:	
		CIC Reference Ratio (dB)	
		CIC Ratio (dB)	
		CIC Result	
8. Weather Station N/A	SNo:	Confirm weather data:	No.
Barix Instreamer N/A		Confirm live data:	Part No.
9. Final Check Completed	Yes		
o. t mai dileat dompieted			
Any Other Comments:			4 1111
Itility Unit readings not available on meter. W	indsheild replaced.		



Before Calibration

FS Form-003 2250 Based NMT PM Report

1. Site information					
1.1 CMS Ticket 348585			1.2 Airport/Urban	Airport	
1.3 Inspection	1		1.4 Location	Trailer	
1.5 Site Number NMT22	1		1,6 Date	16-Sep-20	
	/David Courtney			10-0cp-20	
1.8 Normal NMT Operation Interrupted	From	14,45	₇₋	45.05.00	
1.5 Normal NWT Operation Interrupted	FIORI	14,45	To	15:05:00	
70 2 111 10 10 10 10					
7. Occupational Health and Safety Ched			_		
Environmental exposure –				Yes	
	esignated work area	- Use of witches ha	ats, barricades as cordons	No	
Personal Protective Equipment (P	PE) - protective glove	s, safety boots, hig	h viz vest, insect repellent	Yes	
	Animal hazards	No	Traffic hazards	No	
+	leight / door work	Yes	Work within 2M of edge	No	
	Ladder used	No			
			Harness used	No	
	Pole erected	No	Support used	No	
	ersonnel required	Yes	Anchor points	No	
	al handling issues	Yes	Emergency equipment	No	
Contact with electricity -	- Overhead power	No	Residual current devices	No	
Structural earthing of build	ings / installations	No	Risk of public injury	No	
Working alone / isolated - means		No	New hazards identified	No	
-	or access issues	No			
oodank,		110			
Comments: Site Seques and no selet.					
Comments: Site Secure and no safety concern					5 E E
					(4)
11. Mechanical Inspection					
Site Condition:	Good		√		
Fence Condition:	Good		√		
Cabinet Condition:	Good		✓		
Moisture Inside NMT:	None		√		
Insect Infestation:	None				
Windshield Foam:	Good	1.	√		
Bird Spike:	Good		√ 2		
Lightning Rod:	Good				
Earth Connection:	Good				
Pole and Pole Mounting Condition:	Good		√		
Conduit Condition:	Good		√		
Solar Panel Condition	Good	a			
Solar Battery Cabinet Condition:	Good				
Cleaned Solar Panel:	Yes				
Battery Terminal Check:	Yes				
GPS Coordinates: Altitude:	58m	Latitude:	53.424132	1	0.004540
Of a coordinates.	JOH	Latitude, [55.424132	Longtitude: [-6.231516
40 Florida Inconstitut					
12. Electrical Inspection	9			8 04	
11.1 NMT LCD Display: Good				Ş	
11.2 Door Switch: Good					
1.11 NMT Model: 3639-A	1.9 NMT SNo:	3023700	-		
1.10 2250 SNo: 3010352	2250 Type:	G4 Light	11.5 Firmware Version:	4.5.2.179	
	Cal Report No:	NA	Lab Certificate Date:	NA	
Current Microphone Model: 4952	1.12 SNo:	3037361			
San out impropriotio model. 4332	1.12 9(40.	1001001		6	
1 13 Modern Times	L. Martin Otto		15.4-1		
1.13 Modern Type: GX400	Modem SNo:		IMEI Number:		
			2		
Pistonphone/ Calibrator Information	2				
2.1 Pistonphone/Calibrator Model;	B&K Type 423	1 Calibrator			
2.1 Serial Number: 3005620	Cal Report No:	04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB): 94.07			2.3 Atmos. Pressure (hPa)	NA NA	
	l ,		Pressure Correction (dB)		
		Z.4 Autios.	riessure Correction (aB)	NA .	
0.44 0.44 0.44					
Backup Battery Check:	1				
	1				
Battery voltage with Load & Mains (13 to 14V	13.7			,	
at -10°C to 40°C):	13.7				
Battery voltage with load only, wait for 5					
minutes before measuring (≥12V):	11.4				
	11.7				
	11.7				
Existing Microphone Calibration					

2.6 Expected Calibration Level (dB):	94	Calibrating Level (dB):	93.9
Sensitivity (mV/Pa):	29.46	New Sensitivity (mV/Pa):	29,57
Deviation from initial (dB):	0.61	Deviation from last (dB):	-0.58
Deviation from last (dB):	-0.61	Deviation from initial (dB):	0.64
		CIC Calibration	
		CIC Reference Ratio (dB)	-36.85
		CIC Ratio (dB)	-36.85
		CIC Result	Passed
2250 Replacement (New)	No		
2250 SNo:	Not the state of t		
2250 Type:	Cal Report No :	Lab Certificate Date:	
The state of the s		Firmware Version:	return of the second
13. Microphone Replacement (New)	No		TOP OF THE STATE
Microphone Model:	SNo:		
Acoustical Calibration:	0110	The State of the	
Before Calibration		After Calibration	
Expected Calibration Level (dB)	DE LOS SERVICES AND A	Calibrating Level (dB):	00.00780 01.515
Sensitivity (mV/Pa)		New Sensitivity (mV/Pa):	
Deviation from initial (dB)		Deviation from last (dB):	
Deviation from last (dB)		Deviation from initial (dB):	- 15 S
Dovidual trott (ab)	7		Marie Transfer
	J. S.	CIC Calibration:	Statistics Section
		CIC Reference Ratio (dB)	
		CIC Ratio (dB)	
		CIC Result	
원인 경기에서 경기를 가면 하면 내가 없다.			
18. Weather Station N/A	SNo:	Confirm weather data;	* list = 3-2
Barix Instreamer N/A	1	Confirm live data:	April 1990
19. Final Check Completed	Yes		
Any Other Comments:			
Windshield replaced. New plastic needed for	1952.		
viringshield replaced, New plastic needed for a	1332.		
Call Envirosuite Operation Centre (EMS OC) on 1-866-583 0280 or +61	3 9508 4930 to verify NMT operation	



FS Form-003 2250 Based NMT PM Report

1. Site Information						
1.1 CMS Ticket	#348585	1		1.2 Airport/Urban	Airport	1 *
1.3 Inspection		1		1.4 Location	St. Doolaghs	1
1.5 Site Number	NMT02	1		1.6 Date	04-Sep-20	
1.7 Inspected by	Michael Hand	/David Courtney		Date	04-06p-20	
1,8 Normal NMT Operation In		From	14.15	то[9:36	l
- ·			14,10	, , ,		I
7. Occupational Health at	nd Safety Chec	k				
Environm	ental exposure -	Annropriate clothine	a wide brimmed het	sunscreen, drinking fluids	Ver	ı
E.MIOIII.	District Control of Control	Appropriate ciousing	g, wide billittled ligh, a — Llea of wêtchoo b	ats, barricades as cordons	Yes	
Personal Protection	ve Equipment /Di	DE) — protective alo	ues sofoty hoots his	th viz vest, insect repellent	No No	
1 0/30/14/7 (0/00/04)	To Equipment ()	Animal hazards	No	Traffic hazards	Yes	
	L	leight / door work	No	Work within 2M of edge	No	
	•	Ladder used	Yes		No	
		Pole erected	No	Harness used	No	
	Multiple p	ersonnel required	Yes	Support used	No	
		al handling issues	Yes	Anchor points	No No	
Contac		- Overhead power		Emergency equipment	No	2
		ings / installations	No	Residual current devices	No No	
		•	No No	Risk of public injury	No	
Working alone / is		of communication	No No	New hazards identified	No	
	Security	or access issues	No			
0						
Comments: Site Secure and n	o safety concern					
11. Mechanical Inspection	n		- 4 ×			
Site Condition:		Good		✓		
Fence Condition:		Good		✓ .		
Cabinet Condition:		Good		√ ·		
Moisture Inside NMT:		None		1		
Insect Infestation:		None		✓		
Windshield Foam:		Good		✓		
Bird Spike:		Good		√		'
Lightning Rod:		Good		√	-	
Earth Connection:	175	Good		-		4
Pole and Pole Mounting Cond	ition:	Good		√		
Conduit Condition:		Good		√		1
Solar Panel Condition		NA				
Solar Battery Cabinet Condition	n:	NA				7 1
Cleaned Solar Panel:	12	NA				
Battery Terminal Check:		Yes				
GPS Coordinates:	Altitude:	34 meters	Latitude:	53.41434	Longtitude:	-6.185997
)
12. Electrical Inspection						
11.1 NMT LCD Display:	Good	В	<u> </u>			
11.2 Door Switch:	Good					
1.11 NMT Model:	3639-A	1.9 NMT SNo:	3037367		V	8 1 8
1.10 2250 \$No:	3008054	2250 Type:	G4 Light	11.5 Firmware Version:	4	
		Cal Report No:	NA NA	Lab Certificate Date:	NA	
		_	Y			
Current Microphone Model:	4952	1.12 SNo:	3037367			
æ 78		_				
1,13 Modem Type:	GX400	Modem SNo:		IMEI Number:		
Pistonphone/ Calibrator I					7.	
2.1 Pistonphone/Calibrator Mo			231 Calibrator	_		
2.1 Serial Number:		Cal Report No:	04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB):	94,07	9		2.3 Atmos. Pressure (hPa)	S	
	÷		2.4 Atmos	. Pressure Correction (dB)	7.8	
_ (.* ')		72		e		3
Backup Battery Check:		1				
		1				
Battery voltage with Load & Ma	ains (13 to 14V	14.52				
at -10°C to 40°C):	1.7	14.32				
Battery voltage with load only,		14,26				
minutes before measuring (≥1:	2V):	14,20				
Existing Microphone Cali	bration					

Acoustical Calibration:

Before Calibration

2.6 Expected Calibration Level (dB): 94	Calibrating Level (dB):	94
Sensitivity (mV/Pa): 34,46	New Sensitivity (mV/Pa):	35,09
Deviation from initial (dB): 0.07	Deviation from last (dB):	0,16
Deviation from last (dB): 0.75	Deviation from initial (dB):	0.23
		CIC Calibration	
		CIC Reference Ratio (dB)	-36:72
	and the second second	CIC Ratio (dB)	-36.74
		CIC Result	Passed
50 Replacement (New)	No.		
2250 SNo:	WHAT IS USED SAILS		
2250 Type:	Cal Report No :	Lab Certificate Date:	E 1455-
	The state of the s	Firmware Version:	
. Microphone Replacement (New)	No		114
Microphone Model:	SNo:		
oustical Calibration:			
Before Calibration		After Calibration	
Expected Calibration Level (dB	3);	Calibrating Level (dB):	
Sensitivity (mV/Pa		New Sensitivity (mV/Pa):	
Deviation from initial (dE		Deviation from last (dB):	THE PART
Deviation from last (dB		Deviation from initial (dB):	
			Adding the
	A STATE OF THE STA	CIC Calibration:	
		CIC Reference Ratio (dB)	41 11 19 17
		CIC Ratio (dB)	JAMES SEAT
		CIC Result	
			Jon Troub
3. Weather Station N/A	SNo:	Confirm weather data:	
arix Instreamer N/A		Confirm live data:	1000
arix instreamer			30 30
Circl Check Completed	Yes		
9. Final Check Completed	Tes		
ny Other Comments:			



FS Form-003 2250 Based NMT PM Report

1. Site Information				8	
1.1 CMS Ticket #348585	-		1.2 Airport/Linham	A lum a set	
1.3 Inspection	-		1.2 Airport/Urban 1.4 Location	Airport	
1.5 Site Number NMT01	╡		1.6 Date	Bay Lane	
· · · · · · · · · · · · · · · · · · ·	nd/David Courtney		1.6 Date	10-Sep-20	
1.8 Normal NMT Operation Interrupted	From	12.00	ТоГ	12:30:00	
The French Control of the Control of	Trom	12.00	اها	12.30.00	
7. Occupational Health and Safety Che	eck				
		ıa. wide brimmed ha	t, sunscreen, drinking fluids	Yes	
			hats, barricades as cordons	No	
Personal Protective Equipment (I	PPE) - protective glo	ves, safety boots, h	igh viz vest, insect repellent	Yes	
	Animal hazards	No	Traffic hazards	No	
	Height / door work	No	Work within 2M of edge	No	
	Ladder used	Yes	Harness used	No	
	Pole erected	No	Support used	No	
·	personnel required	Yes	Anchor points	No	
	ual handling issues	Yes	Emergency equipment	No	
Contact with electricity		No	Residual current devices	No	
Structural earthing of buil		No	Risk of public injury	No	
Working alone / isolated – mean		No	New hazards identified	No	
Secur	ity or access issues	No	(4)		
Comments: Site Secure and no safety concer					
Comments, one Secure and no safety concer	П				
				ran	
11. Mechanical Inspection					
Site Condition:	Good				
Fence Condition:	Good		√ √		
Cabinet Condition:	Good				
Moisture Inside NMT:	None				
Insect Infestation:	Infested	Spi	ders. Spiders and nests clear	red	
Windshield Foam:	Good		✓	-	
Bird Spike:	Good				
Lightning Rod:	Good		√		
Earth Connection:	Good		√		
Pole and Pole Mounting Condition:	Good		_		
Conduit Condition:	Good	The second second	✓ = .		
Solar Panel Condition	NA				
Solar Battery Cabinet Condition:	NA				
Cleaned Solar Panel:	NA Yes		, , , , , , , , , , , , , , , , , , , ,		
Battery Terminal Check: GPS Coordinates: Altitude	Yes 76 meters	l attivals	√ 50.405440		
GF3 Coordinates. Attitude	: 76 meters	Latitude	53.425119	Longtitude:	-6.346295
12. Electrical Inspection					
11,1 NMT LCD Display: Good					
11.2 Door Switch: Good					
1.11 NMT Model: 3639-A	1.9 NMT SNo:	3023432			
1.10 2250 SNo: 3008332	2250 Type:	G4 Light	11.5 Firmware Version:	4,5,0,92	
	Cal Report No:	NA NA	Lab Certificate Date:	NA	
	_				
Current Microphone Model: 4952	1.12 SNo:[3037360			
1 40 Made - T	J				
1.13 Modern Type: GX400	Modem SNo:		MEI Number:		
Pistonphone/ Calibrator Information		9	· · · · · · · · · · · · · · · · · · ·		
2.1 Pistonphone/Calibrator Model:	D&V Time 4	231 Calibrator	1		
2.1 Serial Number: 3005620	Cal Report No:		3.3.00000000000000000000000000000000000	2/40/0000	
2.5 Normalized Output (dB): 94.07		04142/1	2.2 Calibrated Date: 2.3 Atmos. Pressure (hPa)	3/10/2020	
	_	2 4 Atmo	s. Pressure Correction (dB)	NA NA	
		. 2,7 Adilo	o. 1 , saudio confection (dD)	IVA	
Backup Battery Check:	1				
-	1		*	4	
Battery voltage with Load & Mains (13 to 14V	15.16				
at -10°C to 40°C):	10,10				
Battery voltage with load only, wait for 5	14.26				
minutes before measuring (≥12V);	. 7.20				

Existing Microphone Calibration

Acoustical Calibration:

Before Calibration

2.6 Expected Calibration Level (dB): Sensitivity (mV/Pa): 32.37 Deviation from initial (dB): Deviation from last (dB): 0.21	Calibrating Level (dB): 93.42
Sensitivity (mV/Pa): 32.37 Deviation from initial (dB): -0,01 Deviation from last (dB): 0.21	Deviation from last (dB):
Deviation from Initial (dB): -0.01 Deviation from last (dB): 0.21	Deviation from initial (dB): -0.03 CIC Calibration CIC Reference Ratio (dB) -36.87 CIC Ratio (dB) -36.87
	CIC Calibration CIC Reference Ratio (dB) -36.87 CIC Ratio (dB) -36.87
	CIC Reference Ratio (dB) -36.87 CIC Ratio (dB) -36.87
GEO Darlan was to Mana	CIC Ratio (dB) -36.87
GEO Darlan was ti (Maux)	313 1140 (115)
OSO Designment (May)	
OSO Deviles and (Mond)	CIC Result Passed
250 Replacement (New)	
2250 SNo:	중인 그는 마음이 이번 경험이 가장을 하시다고 있다.
2250 Type: Cal Report No :	Lab Certificate Date:
	Firmware Version:
3. Microphone Replacement (New) No	
Microphone Model: SNo :	
coustical Calibration:	
Before Calibration	After Calibration
Expected Calibration Level (dB):	Calibrating Level (dB):
Sensitivity (mV/Pa):	New Sensitivity (mV/Pa):
Deviation from initial (dB):	Deviation from last (dB):
Deviation from last (dB):	Deviation from initial (dB):
Deviation from last (4D).	
그 그리고 그리고 사용하다는 경우를 통하였다.	CIC Calibration:
	CIC Reference Ratio (dB)
	CIC Ratio (dB)
	CIC Result
8. Weather Station N/A SNo:	Confirm weather data:
Barix Instreamer N/A	Confirm live data:
Sank instreamer	Continue to Contin
19. Final Check Completed Yes	
Any Other Comments:	4 - 1916 (1.70-16) 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11 1.11
Windshield replaced	



FS Form-003 2250 Based NMT PM Report

1. Site Information						
1.1 CMS Ticket	#348585	1		4.0 63		
1.3 Inspection	#040303	1		1.2 Airport/Urban	Airport	
1.5 Site Number	NMT03			1.4 Location	Bishopswood	
		(David Caratia	1	1.6 Date	10-Sep-20	
1.7 Inspected by		/David Courtney		•		
1.8 Normal NMT Operation Int	errupted	From	13,19	To	13:30:00	
7.0		_				
7. Occupational Health ar						
Environme	ental exposure –	Appropriate clothi	ng, wide brimmed ha	t, sunscreen, drinking fluids	Yes	
		esignated work ar	ea - Use of witches I	nats, barricades as cordons	No	
Personal Protectiv	e Equipment (Pl	PE) – protective gl	oves, safety boots, hi	gh viz vest, insect repellent	Yes	
		Animal hazards		Traffic hazards		
	H	leight / door work	No	Work within 2M of edge		
		Ladder used:	No	Harness used	No	
	7.5	Pole erected	No	Support used		
	Multiple p	ersonnel required	Yes	Anchor points		
		al handling issues	Yes	Emergency equipment		
Contac		- Overhead power	No	Residual current devices		
	•	ings / installations	No	Risk of public injury		
Working alone / is			No	• • • • • • • • • • • • • • • • • • • •		
		or access issues	No	New hazards identified	No	
	Occurry	or access issues	NU	_		
Comments: Site Secure and n	o safety concern		51		=======================================	
o the court and is	o salety concern					
		665				
11 Machanical Inspection						
11. Mechanical Inspection	1					
Site Condition:		Good		√		
Fence Condition:		Good				
Cabinet Condition:		Good		✓		
Moisture Inside NMT:		None		✓ ·		
Insect Infestation:		Infested	50 1	Spiders. Nests removed		
Windshield Foam:	200	Good		✓		
Bird Spike:		Good				
Lightning Rod:		Good		- V		
Earth Connection:		Good		√ ·		
Pole and Pole Mounting Condi	tion:	Good			4	
Conduit Condition:	3 -	Good	7.5			
Solar Panel Condition		NA	1 4 8	6,		
Solar Battery Cabinet Condition	n:	NA				a
Cleaned Solar Panel:	315	NA NA				
Battery Terminal Check:	1	Yes		/		
GPS Coordinates:	Altitude:	78 m	Latitude:		Longitude	0.000485
	ration do.	70111	Lautuqe.	33.437636	Longtitude:	-6,333185
12. Electrical Inspection						
11.1 NMT LCD Display:	Good	-	19			
11.2 Door Switch:	Good					
1.11 NMT Model:	3639-A	1.9 NMT SNo:	3023432			
1,10 2250 SNo:	3006805	2250 Type:	G4 Light	11 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	4	
30 30 30 30 30 30 30 30 30 30 30 30 30 3	2223000	Cal Report No:	NA NA	11.5 Firmware Version:	4	
		od vehou 40.	IVA	Lab Certificate Date:	NA NA	
Current Microphone Model:	4952	1.12 SNo:	3037364	1		
s priorite interval.	-,502	1.12 0140.	3031304			
1,13 Modern Type:	Other	Modem SNo:		I MCI Number		
	0 11.01	WOODIN CITO,	= =	MEI Number:		
Pístonphone/ Calibrator Ir	formation				40	
2.1 Pistonphone/Calibrator Mod		B&K Tuna /	231 Calibrator			120
2.1 Serial Number;	3005620					
	94.07	Cal Report No:	04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB):	34.07			2.3 Atmos, Pressure (hPa)	NA NA	
			2.4 Atmos	. Pressure Correction (dB)	NA	
Packup Botton, Charles						
Backup Battery Check:	2.5			F1 61		
Detterminations and to a second	(40.4 4.0.1	1				8
Battery voltage with Load & Ma	ins (13 to 14V	15.16				
at -10°C to 40°C):						
Battery voltage with load only, v		14,26				
minutes before measuring (≥12	v):					

Existing Microphone Calibration

Acoustical Calibration:

Before Calibration

2.6 Expected Calibration Level (di	3): 94	Calibrating Level (dB):	94
Sensitivity (mV/P		New Sensitivity (mV/Pa):	30.61
Deviation from initial (di		Deviation from last (dB):	-0.22
Deviation from last (di		Deviation from initial (dB):	-0.17
		CIC Calibration	
		CIC Reference Ratio (dB)	-36.72
		CIC Ratio (dB)	-36.72
		CIC Result	Passed
250 Replacement (New)	No		
2250 SNo:	Service and the service of the servi		
2250 Type:	Cal Report No :	Lab Certificate Date:	2.84
	AL THE RESERVE OF LAND	Firmware Version:	157.30
3. Microphone Replacement (New)	No		15 H (1)
Microphone Model:	SNo:	The state of the s	1.5
coustical Calibration:		***	
Before Calibration		After Calibration	
Expected Calibration Level (d	B):	Calibrating Level (dB):	160
Sensitivity (mV/P		New Sensitivity (mV/Pa):	
Deviation from initial (d		Deviation from last (dB):	a y stroly.
Deviation from last (d		Deviation from initial (dB):	
The CAST OF SHORE FROM	Sign of the second of the second		A
		CIC Calibration:	
		CIC Reference Ratio (dB)	SE 2 6 100
		CIC Ratio (dB)	
		CIC Result	
18. Weather Station N/A	SNo:	Confirm weather data:	e la la
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	- 1
Barix Instreamer N/A		Confirm live data:	
			11.50
19. Final Check Completed	Yes		
10, 1 mar officer complete			
Any Other Comments:		<u>king i Di behilli Lisoko i</u>	
Windsheild replaced	grand, the said have the		



Before Callbration

FS Form-003 2250 Based NMT PM Report

i. Site intomnation						
1.1 CMS Ticket	348585		*	1.2 Airport/Urban	Airport	
1.3 Inspection				1.4 Location	Feltrim	
1.5 Site Number	NMT20			1.6 Date	04-Sep-20	
1,7 Inspected by		David Courtney			0.00p20	
1.8 Normal NMT Operation In		From	14.58	То	15.05	
1.0 (40) mai (414) Operation in	nerrupteu	, 10111	14.30	10	15.05	
7. Occupational Health a						
Environm	nental exposure -	Appropriate clothir	ng, wide brimmed hat,	sunscreen, drinking fluids	Yes	
	D	esignated work are	ea – Use of witches h	ats, barricades as cordons	No	
Personal Protecti	ive Equipment (PP	E) - protective glo	oves, safety boots, hig	nh viz vest, insect repellent	Yes	
		Animal hazards	No	Traffic hazards	No	
	i H	eight / door work	Yes	Work within 2M of edge	No	
		Ladder used	Yes	. Harness used	No	
		Pole erected	. No			
	Multiple p	ersonnel required		Support used	No	
		' '	Yes	Anchor points	No	
		I handling issues	Yes	Emergency equipment	No	
	ct with electricity –		No No	Residual current devices	No	
Structura	al earthing of buildi	ngs / installations	, No	Risk of public injury	No	
Working alone /	isolated – means o	of communication	No	New hazards identified	No	
	Security	or access issues	No			
	•	. 1				
Comments: Site Secure and	no safety concern		<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Comments: One occare and	no salety concern					
	11			9)		
11. Mechanical Inspection	П					
Site Condition:		Good		1		
Fence Condition:		Good		/		
Cabinet Condition:		Good				
Moisture Inside NMT:		None		√ 		
Insect Infestation:		Infested	Spider	and Spider nests. Mild. Rei	moved .	
Windshield Foam:	1	. Good		✓		
Bird Spike:		Good		√		
Lightning Rod:		Good	,	√		9)
Earth Connection:		Good		/		
Pole and Pole Mounting Cond	tition:	Good		√		*
Conduit Condition:		Good				
	-					
Solar Panel Condition		NA NA				
Solar Battery Cabinet Condition	on:	NA				
Cleaned Solar Panel:	51 · · ·	NA				
Battery Terminal Check:		Yes		√		
GPS Coordinates:	Altitude:	55m	Latitude:	53.474919	Longtitude:	-6.286379
				= = = = =		
12. Electrical Inspection		-				
11.1 NMT LCD Display:	Good				2 2 2	
11.2 Door Switch:	Good					
1.11 NMT Model:		4 O NIMET ON 1	2024024			
		1.9 NMT SNo:	3037367			
1.10 2250 SNo	3008500	2250 Type:	G4 Light	11.5 Firmware Version:	. 4	
		Cal Report No:	NA NA	Lab Certificate Date:	NA NA	
			1	D 0	,	
Current Microphone Model:	4952	1.12 \$No:	3037367	- U		
		,	10			
1.13 Modern Type	: GX400	Modem SNo:		IMEI Number:		
1 - 11 - 21				AND THE THE	32	
Pistonphone/ Calibrator	Information					
		DOV Tone 45	100 Distanctors			
2.1 Pistonphone/Calibrator M			228 Pistonphone	27		
2.1 Serial Number		Cal Report No:	04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB)	94,07			2.3 Atmos, Pressure (hPa)	la la	
			2.4 Atmos	. Pressure Correction (dB)	15	
				(/		
Backup Battery Check:	1	1				
J ellerin	2 1	i	* H = #			
Battery voltage with Load & N	Mains /13 to 14\/					
	namia (15 to 144	15,16V				
at -10°C to 40°C):						,
Battery voltage with load only		14.26				
minutes before measuring (≥	12 V):					
Existing Microphone Cal	ibration	15				

iB): 94	Ontherston Level (dD).	
10/.	Calibrating Level (dB):	94
Pa): 29.16	New Sensitivity (mV/Pa):	30.27
dB): -0.11	Deviation from last (dB):	-0.37
iB): -0.7	Deviation from initial (dB):	0.22
ROLL CONTROL OF THE	CIC Calibration	CHECKER .
	CIC Reference Ratio (dB)	-36.62
	CIC Ratio (dB)	-36.62
	CIC Result	Passed
No		
EL PERSONAL PERSONAL PROPERTY OF THE PERSONAL		
Cal Report No :	Lab Certificate Date:	
AND THE SEASON OF THE SEASON O	Firmware Version:	
No		SERE.
SNo:		
	After Calibration	
iB):	Calibrating Level (dB):	e i i i i i i i i i i i i i i i i i i i
Pa):	New Sensitivity (mV/Pa):	
dB):	Deviation from last (dB):	항문의 역사를
dB):	Deviation from initial (dB):	
		N P PROPERTY
		10 yes 200
		YEARY !
	CIC Ratio (dB)	el Victoria
	CIC Result	
		4 4256
SNo:	Confirm weather data:	al say
	Confirm live data:	2 2 L
Yes		
		1 14 7 7
	No	Deviation from last (dB): Deviation from initial (dB): CIC Calibration CIC Reference Ratio (dB) CIC Ratio (dB) CIC Result No Lab Certificate Date: Firmware Version: No SNo: After Calibration Calibration Calibration Calibration Calibration Calibration Calibration from last (dB): Deviation from last (dB): Deviation from last (dB): CIC Ratio (dB) CIC Ratio (dB) CIC Ratio (dB) CIC Ratio (dB) CIC Result SNo: Confirm weather data: Confirm live data:



FS Form-003 2250 Based NMT PM Report

1. Site information					
1.1 CMS Ticket #34	8585	2	1.2 Airport/Urban	Airport	1
1,3 Inspection			1.4 Location		
1.5 Site Number NMT05			8	Balcultry	
			1.6 Date	04-Sep-20	
1.7 Inspected by Micha	el Hand/David Courtney				
1.8 Normal NMT Operation Interrupted	From	15.30	ТоГ	16:00	1
	6		-		1
7. Occupational Health and Safet	hy Chack				
7. Occupational Fleath and Sale	Ly Check		_		
Environmental exp	osure – Appropriate clothir	ig, wide brimmed hat	, sunscreen, drinking fluids	Yes	
	Designated work are	ea - Use of witches h	nats, barricades as cordons	No	
Personal Protective Equip	ment (PPE) - protective ald	oves, safety boots, his	gh viz vest, insect repellent	Yes	f
	Animal hazards		3 <u> </u>		1
		No	Traffic hazards	No	
	Height / door work	No	Work within 2M of edge	No	
	Ladder used	No	Harness used	No	
	Pole erected	No	Support used	No	
N	fultiple personnel required	Yes	4 ''		ĺ
			_ Anchor points	No	1
	Manual handling issues	Yes	Emergency equipment	No	ĺ
Contact with ele	ectricity Overhead power	No	Residual current devices	No	ĺ
Structural earthing	of buildings / installations	No	Risk of public injury	No	
Working alone / isolated -		No			
	Security or access issues		New hazards identified	No	į.
	Security of access issues	No	1		
Comments: Site Secure and no safety	concern				
					9 8
11. Mechanical Inspection					
Site Condition:	Good		1		ſ
					i
Fence Condition:	Good		√ ·	(£)	
Cabinet Condition:	Good		√		
Moisture Inside NMT:	None		/		
Insect Infestation:	None		/		
Windshield Foam:					
	Good		√		
Bird Spike:	Good		✓	45	
Lightning Rod:	Good		√		
Earth Connection:	Good		1		
Pole and Pole Mounting Condition:	Good		√ 10° 1		
Conduit Condition:	Good		✓		
Solar Panel Condition	Good				
Solar Battery Cabinet Condition:	Good				
Cleaned Solar Panel:					
	Yes				
Battery Terminal Check:	Yes		√		
GPS Coordinates:	Altitude: 54m	Latitude:	53,414163	Longtitude:	-6.137969
			33,112,100	Longinado,	-0.101909
12. Electrical Inspection					
		S H			
11.1 NMT LCD Display: Go					
11.2 Door Switch: Go	od				
1.11 NMT Model: 363	9-A 1.9 NMT SNo:	3037367			
1.10 2250 SNo: 3007			44.5.55	4.5	
3007		G4 Light	11.5 Firmware Version:	4	
	Cal Report No:	NA NA	Lab Certificate Date:	NA	
			· ·		
Current Microphone Model: 499	52 1.12 SNo:	3037367			
1.13 Modern Type:	100 1 11 011 0				-
1.13 Modem Type: GX4	Modem SNo:		. IMEI Number:		
			-		7
Pistonphone/ Calibrator Informat	ion		240		
2.1 Pistonphone/Calibrator Model:	B&K Type 4	231 Calibrator			
2.1 Serial Number: 3005		04142/1	2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB): 94.	07		2.3 Atmos, Pressure (hPa)	NA NA	
			. Pressure Correction (dB)	NA	
		2.47 (41104		14/7	
Packup Botton, Charles					
Backup Battery Check:	1				
	1				
Battery voltage with Load & Mains (13 to	0 14V				
at -10°C to 40°C):	13.65				
Battery voltage with load only, wait for 5					Ε.,
	13,11				
minutes before measuring (≥12V):					
Existing Microphone Calibration					

2.6 Expected Calibration Level (dB): 94	Calibrating Level (dB):	94
Sensitivity (mV/Pa): 29.94	New Sensitivity (mV/Pa):	30,61
Deviation from initial (dB		Deviation from last (dB):	-0,28
Deviation from last (dB): -0.47	Deviation from initial (dB):	-0.14
		CIC Calibration	
		CIC Reference Ratio (dB)	-36.68
		CIC Ratio (dB)	-36.68
		CIC Result	Passed
250 Replacement (New)	No		
2250 SNo:	entra among the same		
2250 Type:	Cal Report No :	Lab Certificate Date:	Photo display
A STATE OF THE STA		Firmware Version:	£6.
3. Microphone Replacement (New)	No	at the same of the same of	
Microphone Model:	SNo:		
coustical Calibration:			
Before Calibration		After Calibration	25
Expected Calibration Level (dE	3):	Calibrating Level (dB):	11 11 11
Sensitivity (mV/Pa	1):	New Sensitivity (mV/Pa):	
Deviation from Initial (dE		Deviation from last (dB):	
Deviation from last (dE	3):	Deviation from initial (dB):	
	Francisco de la Companya del Companya de la Companya del Companya de la Companya		100
		CIC Calibration:	
		CIC Reference Ratio (dB)	11 - GA
		CIC Ratio (dB)	
		CIC Result	20.00
8. Weather Station N/A	SNo:	Confirm weather data:	44
Barix Instreamer N/A		Confirm live data:	NICA A
19. Final Check Completed	Yes		
Any Other Comments:	And the second		
		with new one.	



1. Site Information

FS Form-003 2250 Based NMT PM Report

1.1 CMS Ticket	#348585			1.2 Airport/Urban	Airport	
1.3 Inspection				1.4 Location	Oscar Papa	
1.5 Site Number	NMT20			1.6 Date	03-Sep-20	
1.7 Inspected by	Michael Hand/	David Courtney	1			
1.8 Normal NMT Operation Into	errupted	From	14.15	То	14:45:00	
= 1						
7. Occupational Health an	d Safety Chec	k				
-	-		na wide brimmed het	, sunscreen, drinking fluids	Yes	
Ellykollitic				ats, barricades as cordons		
Darsonal Fratactive		_		·	No	
Personal Protectiv	e edabueur (SS			th viz vest, insect repellent	Yes	
		Animal hazards		Traffic hazards	No	
	Н	eight / door work	No	Work within 2M of edge	No	
		Ladder used	1,10	Harness used	No	
		Pole erected		Support used	No	
	, ,	ersonnel required		Anchor points	No	
		ıl handling issues		Emergency equipment	No	
Contact	t with electricity	Overhead power	No	Residual current devices	No	
Structural	earthing of buildi	ngs / installations	No	Risk of public injury	No	
Working alone / is	clated means o	of communication	No	New hazards identified	No	
	Security	or access issues	Yes			
Comments: Site Secure and no	o safety concern.	arranged access	through IAA contacts			
0						5
L						
11. Mechanical Inspection					,	4.2
	,	01				
Site Condition:		Good		√		
Fence Condition:		Good		√		
Cabinet Condition:	ļ	Good		✓		
Moisture Inside NMT:		None		✓		
Insect Infestation:		None		✓		
Windshield Foam:	8	Good		✓	-	
Bird Spike:		Good		√		
Lightning Rod:	1.0	Good		7		'
Earth Connection:		Good .			, , , , , , , , ,	
Pole and Pole Mounting Condi	tion:	Good				
Conduit Condition:		Good		1	- a.	
Solar Panel Condition	80	NA				
Solar Battery Cabinet Condition	n.	NA	 	FI		
Cleaned Solar Panel:	'"	NA NA			· · · · · · · · · · · · · · · · · · ·	
Battery Terminal Check:		Yes	· · · · · · · · · · · · · · · · · · ·	1		
GPS Coordinates:	Altitude:	5m	Latitude;	53,414163	I ametituda.	£ 427000
GF 5 Cooldinates.	Aldidde.	JIII	I ramidue.	55.414165	Longtitude:	-6.137969
12. Electrical Inspection						
11,1 NMT LCD Display:	Good		_			
11.2 Door Switch:	Good					
1.11 NMT Model:		4.0 NINT ONL	7 0007007			
	3639-A	1.9 NMT \$No:		44 5 5 14 1 1		
1,10 2250 SNa:	3007665	2250 Type:		11.5 Firmware Version:	4	
		Cal Report No:	NA NA	Lab Certificate Date:	NA	
		5				
Current Microphone Model:	4952	1.12 SNo:	3037367			
1,13 Modem:Type:	GX400	Modem SNo:	A151520250001009	IMEI Number:	353567043	275834
Pistonphone/ Calibrator In						8 4
2,1 Pistonphone/Calibrator Mo			4231 Calibrator			
2.1 Serial Number:	3005620	Cal Report No:		2.2 Calibrated Date:	3/10/2020	
2.5 Normalized Output (dB):	94.07			2.3 Atmos. Pressure (hPa)	NA	
	*		2,4 Atmos	. Pressure Correction (dB)	NA	
	_		21			
Backup Battery Check:	a = [1]			
		1.				
Battery voltage with Load & Ma	ains (13 to 14V	15 10]			
at -10°C to 40°C):		15.16	×		(2)	
Battery voltage with load only,	wait for 5	44.00	1			
minutes before measuring (≥12		14,39	0 =			

Existing Microphone Calibration Acoustical Calibration:

Before Calibration

2.6 Expected Calibration Level (dB):	94	Calibrating Level (dB):	94	
Sensitivity (mV/Pa):	31.78	New Sensitivity (mV/Pa):	32.57	
Deviation from initial (dB):	-0.21	Deviation from last (dB):	0,26	
Deviation from last (dB):	0.05	Deviation from initial (dB):	-0.11	
		CIC Calibration	San Este Scott	
		CIC Reference Ratio (dB)	-36.57	
		CIC Ratio (dB)	-36.57	
		CIC Result	Passed	
2250 Replacement (New)	No			
2250 SNo:	1			
2250 Type:	Cal Report No :	Lab Certificate Date:		
- 1	the sold to	Firmware Version:		
13. Microphone Replacement (New)	No		ига за	
Microphone Model:	SNo:	MARKET AND REPORT OF THE PARK AND ADDRESS OF THE PARK		
Acoustical Calibration:	5			
Before Calibration		After Calibration		
Expected Calibration Level (dB):	100	Calibrating Level (dB):		
Sensitivity (mV/Pa):		New Sensitivity (mV/Pa):		
Deviation from initial (dB):	Parties of the	Deviation from last (dB):		
Deviation from last (dB):		Deviation from initial (dB):		
Deviation from tast (ab).[- 4 - 1 - 1 - 1 - 1 - 1	Dovidson (rom mad; (ab).	0.750	
		CIC Calibration:		
		CIC Reference Ratio (dB)	100	
		CIC Ratio (dB)		
		CIC Result	0.0	
		Old House	24 to 12	
18. Weather Station N/A	SNo:	Confirm weather data:	.7	
-		06 thus deter	1.68	
Barix Instreamer N/A		Confirm live data:		
19. Final Check Completed	Yes			
Any Other Comments:				
Windshield replaced				