

Certificate of conformity for area covering AFILS
In accordance with IEC 60118-4:2014, AMD1:2017



Venue information

Name: _____
Room: _____
Contact: _____

Certifying Company information

Company: _____
Phone: _____
Email: _____
Name: _____

System information

Loop driver: _____ Serial No.: _____
Layout type: _____

Wire information

Wire type: _____
Wire position: _____
Resistance: _____ Loop A: _____ Ω Loop B: _____ Ω

Test equipment

FSM used: _____
Test signals used: _____

1. Sketch	Provide a sketch or drawing of the room. Add all test points and indicate if there are any areas of the room that experience higher background noise than -32dB(A). Please provide scale or dimensions.

2. Measuring Height	Measuring height, keep consistent throughout commissioning.	Seated 1.2m		Seated and standing 1.45m	
		Standing 1.7m		Other, please specify	m

3. Background Noise	Measure at least 4 points within the intended area of use. Loop system OFF, turn on all other electrical equipment and lights. -32dB is the highest background noise for immediate pass. Set Univox FSM to LOW RANGE when measuring.										
Test point	A	B	C	D	E	F	G	H	I	J	Summary
dB											All values are $\leq 32\text{dB(A)}$
Notes:											Two values between -32 and -29dB(A)
											Any value $\geq 29\text{dB(A)}$

4. Field Strength	Using a pulsed 1 kHz test tone, Set input gain so that the AGC is active. At least 1 test point should reach 0dB using the Univox FSM on HIGH RANGE/FLAT.										
Test point	A	B	C	D	E	F	G	H	I	J	Summary
dB											All values are 0dB $\pm 3\text{dB}$
Notes:											Two values are 0dB $\pm 5\text{dB}$
											Any value $> 5\text{dB}$ or $\leq 5\text{dB}$

5. Frequency Response	Using the Univox multi frequency test tone, measure each test point individually. 100Hz and 5kHz should be $\pm 3\text{dB}$ from 1kHz. Maximum slope per test point is 6dB between 100Hz and 5kHz. Adjust MLC to compensate. Univox FSM set to HIGH RANGE/FLAT										
Test point	A	B	C	D	E	F	G	H	I	J	Summary
100Hz											100Hz and 5kHz $\pm 3\text{dB}$ of 1kHz at all points
1kHz											100Hz and 5kHz $\pm 5\text{dB}$ of 1kHz at some points
5kHz											Any value $> 5\text{dB}$ or $\leq 5\text{dB}$ of 1kHz
Notes:											

6. Live Signals					Using live audio or the haspeech audio file, measure the live level signals with the Univox FSM set to HIGH RANGE/FLAT. Peaks should reach 0dB at at least one test point. Adjust input gain.								
Test point	A	B	C	D	E	F	G	H	I	J	Summary		
dB											Min. 1 point between -6dB and +3dB		
Notes:											Min. 1 point between -9dB and +6dB		
Using headphones with the Univox FSM, rate the audio quality. Make sure that the AGC, sometimes referred to as compression or input is active before continuing.		Does the amplifier show an active input?				Yes		No					
		Background noise, level of hum or hissing noise				Quiet		Noticable		Noisy			
		Unpleasant audio, popping or crackling noise				Clean		Noticable		Distorted			
		Signal clarity, is audio clear, muffled or shrill?				Clear		Noticable		Unintelligible			
		Is the signal delivered without LED for Peak being lit?				Yes		Some Clipping		Clipping			
		With a pulsed 1.6 kHz test signal, is the Peak LED lit?				No		Yes					
Notes:													

7. Spill Control					Using a pulsed 1kHz signal, measure spill from the induction loop outside, above or below the covered area to verify that signal levels are sufficiently low as to not interfere with other loops. Values should be ≤32dB. Spill is measured with FSM set to HIGH RANGE/FLAT.								
Test point	K	L	M	N	Notes:								
dB													

8. System Noise					With the loop amplifier turned on and inputs muted, Measure background noise with the Univox FSM set to LOW RANGE. Measure at least one position. Is the noise noticably higher? Value should be ≤47dBA or ±3dB from background noise measurement result.							
Test point	A	B	C	D	E	F	G	H	I	J	Summary	
dB											≤47dBA or within 3dB(A) of background noise	
Notes:											≤32dB(A) and >3dB(A) of background noise	
											≥32dB(A) and >3dB(A) of background noise	

9. Venue Accessibility		In order to assure that the system provides a good signal and will continue to do so in the future, please answer the following questions and provide the system operator the neccessary training to allow them to maintain the system adequatly for years to come.											
Is the international Hearing Loop sign mounted and clearly visible?												Yes	
												No	
Is the sign placed in a suitable position that clearly shows where the system can be used?												Yes	
												No	
If applicable. If the system only provides part coverage, is there map showing where? Either online or in the venue.												Yes	
												No	
Do staff responsible for the loop know how to operate the induction loop system?												Yes	
												No	
Is there a schedule for routine inspection and maintenance?												Yes	
												No	
Notes:													

Overall verdict	Is the system performing to standard IEC 60118-4? Count all colored checkboxes.												
	Pass				Qualified Pass				Fail				
	(All checks in green boxes)				(Up to 2 checks in yellow boxes)				(1 or more checks in red boxes)				
Notes:													

Declaration of conformity that the system has been tested against the requirements set by IEC 60118-4.	Signed:	Date:
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