

Certificate of Conformity

Certification of a hearing loop system according to IEC 60118-4

Customer
Venue:
Room:
Contact person:
Date:
Signature:
Loop driver (make and type):
Driver serial No:
Loop coverage area:
Loop wire position:
Control
Measuring tool (make and type):
Measuring/listening height:
Company:
Name:
Date:
Certification
This hearing loop system is commissioned to perform as required by IEC 60118-4:
Name:
Signature:

Measuring procedure with Univox FSM 2.0 and attached audio files

Please read before starting the measuring procedure:

- · When connecting the signal source, slowly increase the input sensitivity until AGC is activated according to the driver's manual.
- FSM 2.0 shows values as integers, which can result in an error margin of up to 1dB.
- · Readings close to the loop wire (where the coverage boundary limits are) are sensitive to vertical variation which can add an error margin of up to 1dB.
- For non-conformity readings, ±3dB is the allowed variation according to the standard.
- · At low level listening (no program material), the clock frequency of the FSM 2.0 micro processor may be heard.
- Overspill measurements are possible below noise level using FSM 2.0. (Please refer to FSM 2.0 User Guide)

Test protoc Press START on FSN		ate the meas	suring procedure.							
 Background noise measurement (Noise) Disconnect the loop driver's power cord and document the background noise levels. Readings below -47dBA are preferred but -32dBA is acceptable. -22dBA is accepted for short announcement loop systems. 										
	With A-wei	ighted filter	Without A-weig	ghted filter (flat)		Approved				
Measured value:		dBA		dB						
output current or standing (1.	control. Cor 7m) height. below) or ir 1. "Field str	nfirm that the If both sitting a graphic flo rength is acco	e field strength dog g and standing po por plan (page 4). ording to standard	pesn't vary more the sitions are used, restions are used, restinctions.	Id strength level to approx12dB unan ±3dB within the listening area and measure at 1.45m. Document the value wall at 1.2m." The wall at 1.2m." The of 3x2m in the middle of the lister	at sitting (1.2m) Pariation in writing				
						Approved				
readings at 100 the listening ar	strength at OHz and 5kH ea at select e frequency	-12dB. Any "lo Iz in relation ed height. Co with the ML0	to the reference of the	value at 1kHz (is a easuring values do refer to the User (rned off. Apply signal 3_freq.wav. D utomatically set to 0dB) in several in't vary more than ±3dB. If the dev Guide of the loop driver and FSM 2.0	locations within iation is too				
		0Hz	1kHz	5kHz		Approved				
Largest deviation		dB	0dB	dB						
 Comprehe For measuring 			(not require o Univox FSM 2.0		ation) (Freq)					
(400A/m) is re	file 1kHz_p eached, prefe ed since the	oulse.wav. Adj errably in bet loop driver's	ust the field strer ween the listenin	ngth level using th g area's outer edg	e drivers' output current control un e and middle. (Note: A continuous s nfirm that the field strength level do	ine wave is not				
		Target: 0dB	(±3dB)			Approved				
 Reached field stre	ength level:		dB							

HII	nal confir	mation and o	ommissioning		Checked		
6.	Adjustment of input sensitivity and verification of field strength (Highest peak) Connect a signal source typical for the venue and activate it. (The haspeech.wav and itu.wav speech files can be used.) Readjust the input sensitivity according to the driver's User Guide. Confirm that the highest peak reaches 400 mA/m (0dB ±3dB) by observing the highest reading within 30 seconds of measurement. If the requirement of 400mA/m (0dB) is not met, it is necessary to adjust the output current level.						
		Target: 0dB (±3dB)		Approve	ed		
His	ghest peak:	dB					
7.		driver is not peak-clip	oing by observing that the clip/peak indiev and verify that 400mA/m (0dB ±3dB)				
8.	Note: Backgrour	ality (clear sound with n	quency range amplified by hearing aids, n	loop, using Univox Listener or Univox FSM 2.0. night be heared. This does not affect the			
9.	Signage Put up signs cle room/s.	early showing the hear	ng aid users that a loop system is install	ed, for example at the entrance to the loope	d		
10	Inform and inst		n and position of the loop system and hall manuals accessible.	now to use the testing instrument , e.g.			
11			r certification) e loop in the room and relevant measur	rement parameters should be attached			
No	otes						

Floor plan

