Counter Induction Loop Certificate of Test & Conformity

AMPETRONIC

For AFILS according to IEC 60118-4:2014, AMD1:2017

Designed to be used with a Field Strength Meter or Loopworks Measure with R1 Receiver.

Installation details	Testing details
Customer:	Company:
Venue:	Tester name:
Room:	Date:
System Manufacturer:	Test equipment manufacturer(s):
Amplifier model(s):	Test equipment model(s):

Test positions

Figure 1: Side view

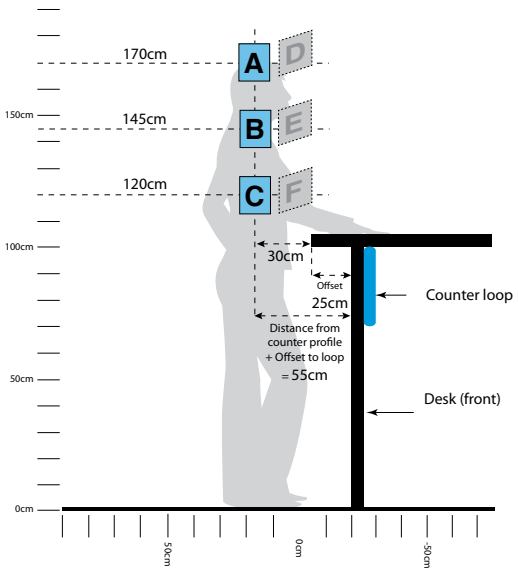
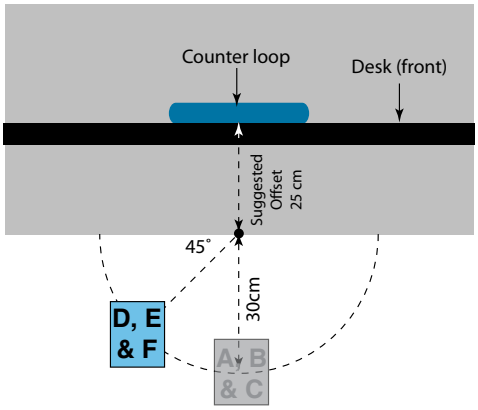


Figure 2: Above view



Measurement Zones:

Readings should be taken in 6 zones (A, B, C, D, E, F). When taking a reading with a Field Strength Meter or Loopworks Measure with R1 Receiver the device should be held upright, to mimic the position of the telecoil within a hearing aid.

Zones A, B and C are located at three specific heights and distances directly in-front of the counter at the point where a user would be expected to stand (see Figure 1).

Zones D, E and F are located at 45 degrees from zones A, B and C at the same heights. This allows for some lateral movement from the user (see Figure 2).

1 Magnetic background noise [Driver off]

A	B	C	D	E	F

☐ All readings are < -32dB(A)

☐ Any readings between -32dB(A) and -22dB(A)

☐ Any readings of > -22dB(A)

Comments:

2 Field strength [1kHz Combi]

A	B	C	D	E	F

☐ All readings 0dB +/- 6dB

☐ All readings 0dB +/- 8dB

☐ Any readings > 8dB or < -8dB

Comments:

3 Frequency response [Pink noise]

A		B		C		D		E		F	
100Hz		100Hz		100Hz		100Hz		100Hz		100Hz	
1kHz		1kHz		1kHz		1kHz		1kHz		1kHz	
5kHz		5kHz		5kHz		5kHz		5kHz		5kHz	

☐ 100Hz & 5kHz +/- 3dB of 1kHz in all positions

☐ 100Hz & 5kHz +/- 3dB of 1kHz in some positions

☐ Frequency response not achieved

Comments:

4 Live signal - Listening test [Actual signals]

Does the input signal indicator show a signal is present?	Yes	
	No	

Note: On the loop amplifier the input signal indicator may be labelled as 'AGC', 'Compression', 'Input' or 'In'. If no indicators are active, action is required to enable this before proceeding.

Using the Field Strength Meter & headphones - rate each parameter

Background noise i.e. the level of hum or buzz that is not intended to be heard

Quiet	Noticeable	Very noisy

Unpleasant program signal i.e. the popping or fizzing sounds alongside normal signals

Clean	Noticeable	Distorted

Signal clarity i.e. is the sound clear, dull or muffled?

Clear	Noticeable	Unclear

Are normal signals delivered without triggering the clip or overload LED?

Yes	Some clipping, audio OK	Clipping

Comments:

5 Live signal - Field strength [Actual signals]

In at least one position, with live speech signals, does the system achieve peaks of acceptable field strength?

Between -6dB and +3dB	Between -9dB and +8dB	> +8dB or < -9dB

Comments:

6 System noise [Inputs muted]

In at least one position, with the amplifier on but audio inputs muted, is the noise level significantly higher?

< -47dB(A) or within 3dB(A) of BG noise	< -32dB(A) and > 3dB(A) of BG noise	> -32dB(A) and > 3dB(A) of BG noise

Comments:

7 Overspill [1kHz Combi]

If applicable, is the field strength suitably attenuated by adjacent systems or areas with privacy concerns?

G	H	I	J
< -32dB(A) or within 3dB(A) of BG noise	< -22dB(A) and > 3dB(A) of BG noise	> -22dB(A) and > 3dB(A) of BG noise	

Comments:

8 Venue accessibility

Is the internationally recognised induction loop sign clearly displayed?	Yes	
	No	
Is the sign in an appropriate position that makes it clear where to stand to use the system?	Yes	
	No	
Are operators at the venue / installation able to setup and operate the system?	Yes	
	No	
Is there a routine maintenance and system checking schedule in place?	Yes	
	No	

Comments:

Verdict

Based on steps 1 to 8 does the system / facility perform according to the IEC 60118-4 Standard?

SYSTEM PASS (All ticks in green boxes) ☐	PASS (LIMITED) (UP TO 2 ticks in yellow boxes) ☐	SYSTEM FAIL (1 or more ticks in red boxes) ☐

Comments:

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