

# Checking an Induction Loop System

## *using the Ampetronic ILR3+*



## Purpose

Your induction loop system is installed to help hearing aid users to hear high quality sound, and to remove unwanted background noise. An induction loop can make a big difference to users, but only if it is turned on and adjusted correctly.

This procedure shows you how to check that your induction loop system is providing a benefit to the users using a simple ILR3+ (shown in the picture). The procedure is very quick and simple and should be carried out frequently.

Your loop system should also be measured with a professional meter on an occasional basis to ensure good performance, and compliance with the performance standard (called IEC 60118-4).



## Before you start

### 1. Check the Induction Loop System

- Identify the induction loop amplifier
- Ensure the amplifier is turned **on**

### 2. Check the Loop Receiver - Ampetronic ILR3+

- Turn the volume knob down to zero (anticlockwise)
- Set 'Low Cut Filter' button to be **out**
- Put the headphones on, and insert the jack plug into the socket on the top of the ILR3+ (this turns the ILR3+ on)
- Check the power (O/I) indicator is lit - if not, batteries need replacing

### 3. Check the input signal / sounds

- Ensure the loop system has normal sound entering the system. You may need someone to speak at the normal position of the talker into the induction loop microphone, so the loop system receives sounds as in normal use.
- Turn up the ILR3+ volume control to **half-way** and you should clearly hear the sound from the induction loop system

### 4. You are now ready to follow the **Loop System Checking Procedure** (see over)

# Loop System Checking Procedure

## 1. Decide where to hold the ILR3+

Hold the ILR3+ in a position where the user's ear would normally be, seated or standing

The ILR3+ must be held vertically, with the indicator lights facing the ceiling or the floor.

Hold the ILR3+ in the hand - do not place on any surface or structure

If the user could be in various positions or different areas, repeat steps 2 and 3 with the ILR3+ in each typical position for the user's ear.

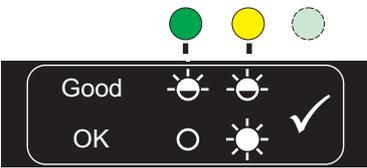
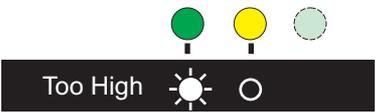
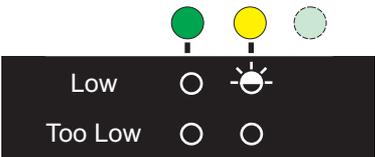
When performing steps 2 and 3 below, if the system fails, report what is seen or heard to the person responsible for maintenance and repair of the induction loop system.



## 2. Listen to the loop system

 <p>Ensure sounds / speech etc. are on and are continuous</p>  <p>Listen to the sounds you hear through the headphones</p>	<p><b>PASS</b> </p> <ul style="list-style-type: none"><li>- Sound is clear</li><li>- Easy to understand</li><li>- Comfortable volume</li></ul>	<p><b>FAIL</b> </p> <ul style="list-style-type: none"><li>- Distorted or muffled</li><li>- Hard to understand</li><li>- Inaudible</li></ul> <p><b>REPORT WHAT YOU CAN HEAR</b></p>
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## 3. Check field strength indicators

 <p>Ensure sounds / speech etc. are on and are continuous</p>  <p>While sounds are active, watch the two indicators and compare to the label on the back of the ILR3+</p> <p>Watch and listen for at least 60 seconds</p> <p>Make sure you keep the ILR3+ vertical at all times</p>	<p><b>PASS</b> </p>  <ul style="list-style-type: none"><li>- Yellow on constant or</li><li>- Yellow and green both flickering</li></ul>	<p><b>FAIL</b> </p>  <ul style="list-style-type: none"><li>- Green on constant</li></ul> <p><b>REPORT SIGNAL TOO HIGH</b></p>  <ul style="list-style-type: none"><li>- Yellow occasionally on or both lights off</li></ul> <p><b>REPORT SIGNAL TOO LOW</b></p>
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