



At the very heart of Loopworks™ functionality is a ground-breaking hearing loop test and measurement system, Loopworks™ Measure.



Consisting of the Loopworks Measure R1 Receiver, an iOS App and the Loopworks™ online productivity suite, Loopworks™ Measure enables you to test the functionality of a hearing loop and performance against standards in the field, store and share the results online and issue reports and system certificates.



Featuring:

- field strength mode
- frequency response mode
- background noise mode
- record audio samples
- quick system check wizard
- commissioning wizard
- print automatically generated certificates of conformity featuring your company logo



## Loopworks™ Measure Commissioning verdicts guide

### Loopworks™ is a ground-breaking hearing loop test and measurement system

Loopworks Measure app takes you through eight steps required to perform a commissioning test. All of your test results, at multiple positions across the room, are recorded for each section.

Each test clearly shows a pass, qualified pass or fail verdict live on screen. Results are collated within the app to give a simple overall verdict against relevant performance standards.

Knowing how verdicts are measured will give you the best chance of achieving a pass when commissioning your next hearing loop system.

Overleaf is a handy guide to commissioning test verdicts from our Loopworks measure app.

Simple, powerful  
functionality at your  
fingertips









**AMPETRONIC**®

Listen to the difference

### Providing a genuine benefit.

To find more about what our app tool and support team can bring to your project, talk to our experts on: **UK: +44 (0) 1636 602160, outside UK: +44 (0) 1636 602161**, or email: [sales@ampetronic.com](mailto:sales@ampetronic.com)  
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Commissioning verdicts guide		Individual test verdicts		
		Pass	Qualified pass	Fail
 Background noise		-32dB or below	Above -32dB up to -22dB	Above -22dB
 †Field strength	Area coverage	From -3dB to +3dB	*From -4.5dB to +4.5dB	*Below -4.5dB or above +4.5dB
	Service point	From -6dB to +6dB	From -7.5dB to +7.5dB	Below -7.5dB or above +7.5dB
 Frequency response		100Hz to 5kHz within ±3dB of 1kHz	100Hz or 5kHz within ±6dB of 1kHz and 125Hz to 4kHz within ±3dB of 1kHz	100Hz or 5kHz more than ±6dB from 1kHz or 125Hz to 4kHz more than ±3dB from 1kHz
 Live listening	Input signal?	Yes	No	N/A
	Hum/buzz?	Quiet	Noticeable	Very noisy
	Quality?	Clean	Noticeable	Distorted
	Clarity?	Clear	Noticeable	Unclear
	No clipping?	Yes	Clips, audio OK	Clipping
 †Live field strength	Area coverage	From -6dB to +3dB	From -9dB to +6dB	Below -9dB or above +6dB
	Service point	From -6dB to +3dB	From -9dB to +8dB	Below -9dB or above +8dB
 System noise		-47dB or below, or within 3dB of background noise test	Above -47dB up to -32dB, if more than 3dB above background noise	Above -32dB, if more than 3dB above background noise
 Overspill		-32dB or below, or within 3dB of background noise test	Above -32dB up to -22dB, if more than 3dB above background noise	Above -22dB, if more than 3dB above background noise
 Venue accessibility	Signage?	Yes	N/A	No
	Where used?	Yes	No	N/A
	Trained staff?	Yes	N/A	No
	Maintained?	Yes	No	N/A

Section verdict			
Pass	Qualified pass	Fail	Notes
All tests pass	Up to 50% of tests qualified pass	Any test fails or more than 50% of tests qualified pass	Test signal: system off At least four tests are required
All tests pass, at least one result is between 0dB and +3dB	Up to 50% of tests qualified pass	Any test fails or more than 50% of tests qualified pass	Test signal: combi or sine At least four tests are required
All tests pass	Any test qualified pass	Any test fails	Test signal: pink noise At least four tests are required
All answers as pass	Up to 50% of answers qualified pass	Any answer fails or more than 50% of answers qualified pass	Test signal: live signals To achieve an overall verdict of pass, this section must pass
All tests pass	Up to 50% of tests qualified pass	Any test fails or more than 50% of tests qualified pass	Test signal: live signals Only one test is required
All tests pass	Any test qualified pass	Any test fails	Test signal: system on, no signal Only one test is required
All tests pass	Any test qualified pass	Any test fails	Test signal: combi or sine No overspill test is required for overall verdict
All answers as pass	Up to 50% of answers qualified pass	Any answer fail or more than 50% of answers qualified pass	Leaving any questions as 'no answer' will not affect overall verdict



### Overall verdicts:

**Pass** = all sections are passes, will still pass if overspill and venue accessibility have no verdict.

**Qualified pass** = one or two sections are qualified passes, can still qualified pass if live listening, overspill and venue accessibility have no verdict.

**Fail** = any section is failed or three or more sections are qualified passes.

\*Selecting Australian standards, with metal present for the commissioning session, will increase field strength qualified pass window for area coverage systems to -9dB to +6dB.

† Different limits apply to field strength tests for other signals

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