

## Insertion loss test equipment

### Description

This system is designed to facilitate measurement of the insertion loss of earmuffs, when fitted to an acoustic test fixture, as specified in EN 352 Parts 1 and 3.

The system includes the acoustic duct, fitted with a suitable loudspeaker and uses a plane progressive wave derived from pink noise filtered through one-third octave bands. The specified ATF and isolation cup are provided, including the 1/2" microphone, cable and preamplifier.

The signal generating and sound level measuring system is fully programmed and controlled by a laptop computer (included), the output of which is recorded to disc – or to hard copy via a printer (not included).

Also provided is a separate directional microphone, which is used with the same signal generating and sound level measuring system, to periodically calibrate the sound field.

A sound level calibrator (itself carrying traceable calibration) is also included.



### Services required

Bench mounted  
110/230 volts AC, 50/60Hz, mains electricity

### Approximate sizes & weights

Item	Width (mm)	Depth (mm)	Height (mm)	Weight (kg)
Acoustic Duct	3300	700	700	210
Electronic rack	500	350*	450	21
ATF	180	180	292	10

\*Allow another 100mm for the cables

An extra metre will be required at the right-hand end of the duct.

### Relevant standards

EN 13819-2:2002, clause 4.1.2  
ISO 4869-3, clauses 5.2.3 and 3 and figures 1 and 2

Please [contact us](#) for a quotation

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