ET-FSM

Loop Field Strength Meter

Features

- ☑ Low (-13dB) and High (+6dB) Ranges
- ☑ Selectable "A" Weight Filter
- ☑ Conforms to IEC118
- ☑ Belt Clip

Specification

Display Type	10 LEDs
Battery	9V PP3
Field sensitivity	1mAM^{-1}
Display Range	30dB
Low Range	-40dB to -13dB
High Range	-21dB to +6dB
0dB reference	100mAM^{-1}

Description

The ET-FSM is designed to allow the accurate measurement of loop field strength within an area covered by a hearing loop system.

The ET-FSM has many features which make it ideal for surveying, commissioning and periodically testing all induction loop installations.

The LOW range setting is provided for measuring cross talk between loop systems and interference from mains equipment such as lighting, dimmers and computer equipment.

An "A weight" filter is provided allowing measurements of the audio as the loop is heard by the human ear. This also rejects power hum, allowing accurate assessment of loop installations in areas of high electrical noise.

All measurements are taken with 0dB defined as 100mAM^{-1} RMS using a 125mS PPM response rectifier in line with IEC118.

Testing A Loop System

An audio signal should be sent to the loop amplifier, either by placing a speaker and sound source of 65dBA near the microphones or by playing calibrated pink noise through the system.

Using the ET-FSM held vertically, walk through the area covered and note the average level of the loop field, adjusting the loop amplifier if necessary so that the average field strength is between -3dB and +3dB over 90% of the area. It is also wise to mark on a plan areas of poor coverage or high background noise so hearing aid users can be directed away from these areas.

contacta

332 East Lakewood Blvd., Suite 400
Holland, Michigan 49424

Phone (616) 392-3400
Fax (616) 392-3502
sales@contactainc.com