



GRAS RA4800 Adapter for Sensitivity Verification of Flush Instruction Manual

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GRAS RA4800 Adapter for Sensitivity Verification of Flush Instruction Manual



Revision History



| Revision | Date | Description |
|----------|-----------------|--|
| 1 | 2 November 2020 | First edition |
| 2 | 15 June 2022 | Update Correction table with 40PS-1 values |

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Introduction

The RA4800 is an adapter intended for in situ verification of flush and surface microphones. When using the RA4800, there is no need for dismounting the microphone from the structure on which it is mounted, and therefore it allows for a very quick and convenient verification of the integrity of the measurement setup. It will normally be used with a sound calibrator such as the GRAS 42AG Multifunction Sound Calibrator.

Description

The adapter has three main features.

- It has a 1² stud/collar for fit with any GRAS calibrator fitted for use with an 1²
- It has a soft cushion similar to those found on circum-aural It creates a closed cavity over the microphone to be calibrated.
- It has four spacers that ensure (when the cushion is depressed) that the cavity is well-defined and will be the same from one calibration to the next.

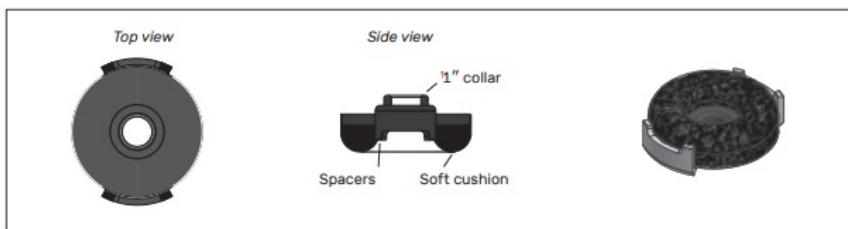


Fig. 1. The RA4800 adapter/field verification set for level calibration.

Procedure

Before verification, you must ensure that the microphone is properly connected and powered up.



When you have turned on the calibrator and pressed it down over the microphone, you must keep it there until the reading on the analyzer is stable.

Refer to the manual for 42AG for further information about how to operate the calibrator.

Correction values

| | 250 Hz | 1 kHz | Accuracy |
|-------------------------|----------|---------|----------------------|
| 40LA | – 0.6 dB | -2.1 dB | ±0.2 dB |
| 40LS | – 0.6 dB | -2.1 dB | ±0.2 dB |
| 40PS-1 | 0.03 dB | 1.43 dB | ±0.29 dB*, ±0.44 dB† |
| 48LA | -0.8 dB | -3.0 dB | ±0.2 dB |
| 48LX-1 | -0.8 dB | -3.0 dB | ±0.2 dB |
| 48LX-4 | -0.8 dB | -3.0 dB | ±0.2 dB |
| 48LX-8 | -0.8 dB | -3.0 dB | ±0.2 dB |
| * @ 250 Hz † @ 1 kHz | | | |

Warranty, Service and Repair

Warranty, Service and Repairs

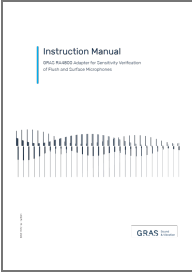
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