

SonoCOMM2



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Two-Way Communication Made Simple - Talk and Listen Through the Ear

Noise hinders effective communication. Noisy environments make it difficult for a person to hear and be heard. Use of communication devices like two-way radios in these environments, further decreases the chance that a clear message can be sent or received. Noise is not only inconvenient, it is also dangerous. Extended exposure in loud environments can permanently damage hearing, but trying to compensate by overprotecting with ear plugs can also be dangerous if they prevent the user from hearing important warning signals or messages. With so many obstacles, effective communication in a noisy environment is hard to achieve. Fortunately, Sonomax now offers a solution to all of these concerns with the revolutionary SonoCOMM2.

The SonoCOMM2 innovates a trusted hands-free communication technology, the two-way radio push-to-talk system, by pairing it with Sonomax's custom-fitted earpiece embedded with a compact microphone-receiver combination. Incoming radio messages are relayed directly into the user's ear, so they are not distorted by surrounding noise. Outgoing spoken messages travel internally through a natural canal connecting the ear to the mouth, allowing the message to bypass surrounding noise. The SonoCustom™ earpieces are comprised of soft medical grade silicone that can be custom-fit to the user's ear in minutes. Custom-fitting assures that sound does not leak out of the ear and that communications remains clear. The SonoCustom™ also protects the user from excess noise without overprotecting.

The SonoCOMM2 wire is worn over the ear so it does not interfere with day-to-day activities. It is compact enough to wear with helmets, respirators, safety hoods and other forms of protective clothing and it's easy to use. The wires can be shared between users who need the SonoCOMM2 at different times, as long as each user has his or her own custom-fit earpieces. The SonoCOMM2 sends a clear message: it is a revolutionary combination of communication and hearing protection.

Product Highlights

- Provides superior communication performance in noisy environments
- Uses an instant-fit, comfortable SonoCustom™ earpiece
- Combines a microphone and receiver that fit directly in the ear
- Enables optimal speech intelligibility without added noise cancellation
- Offers hands-free two-way radio communication
- Can easily be worn with protective gear such as helmets
- Utilises an over-the-ear design and strain relief coil allowing for unrestricted head mobility

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SPECIFICATIONS

Physical Specifications

Typical weight: 13.1 g (0.46 oz) including the earpiece
(actual weight depends on the final size of the earpiece after custom fitting)
Cable: Shielded 1.3 m (50 in.) kink-resistant
Connector: LEMO Straight Plug Coax Connector FFA.00
Ambient Noise Insulation⁽²⁾: -30 dB

Acoustical Specifications

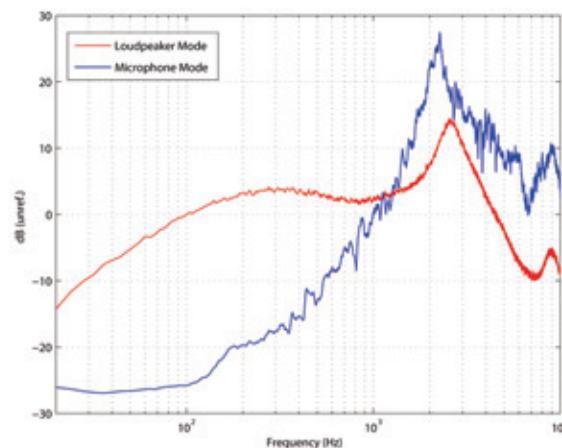
Transducer type: Balanced armature
Acoustic polarity: a positive voltage causes a decrease in pressure at sound outlet
(+electrical = -acoustic)
Impedance: 3400 Ω \pm 15% @500 Hz

Loudspeaker mode

Frequency response⁽¹⁾: 250 Hz to 5.4 kHz \pm 4 dB;
see curve to the right

Microphone mode

Frequency response⁽¹⁾: see curve to the right
Sensitivity: 1.3 mV/Pa \pm 20% @1 kHz



(1) All earphone responses are measured on a manikin which has the same acoustic properties as the average head and ear: The Bruel&Kjaer Head and Torso Simulator 4128C (HATS) complies with the acoustic requirements of ITU-T Rec. P.58, IEC 60959, and ANSI S3.36-1985 and that is highly representative IEC 711/ITU-T Type 3.3 based calibrated ear simulator (Type 4158 C) with built in 1/2 condenser microphone and microphone preamplifier. Reference levels are measured at 500 Hz.

(2) All attenuations are measured on human subjects, using the Real-Ear-Attenuation-at-Threshold (REAT) Method: The ANSI S3.19 standard method of measuring the noise attenuation of hearing protectors and earphones is to compare the quietest sound heard with the earphone in place to the quietest sound heard with the ears open. This REAT method is the basis for all OSHA Noise Reduction Ratings (NRR). Attenuations presented here are the group averages measured on the SonoCustom earplug at E-A-RCAL Laboratories, Indianapolis In (Test ID No 235006).