

2-way communication + hearing protection

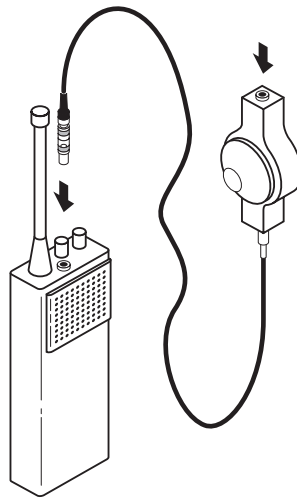
Activities done in noisy environments generally face a lot of problems with speech communication. Normal hearing protection can block out speech recognition and when the communication must be done over a wide range, it can be impractical. The use of 2-way radios can be useful but is often insufficient. The Varicom® can provide a solution.

The Varicom® consists of a custom made earpiece with a built-in high profile miniature microphone and speaker. All the electronic parts are imbedded in the earpiece and thereby insulated against the environmental noise. This leads in an exceptional speech intelligibility. The Varicom® proves to be not only a good communication system but also an excellent hearing protector.



How does it work?

The Varicom® will be connected via a PTT (push to talk) interface to the most common 2-way radios. This PTT interface contains all the electronics for signal conditioning and gives the command for transmit and receive mode. When a call comes in the user will hear the message directly in the ear. When a talk back is required a push on the PTT switch will activate the microphone inside the earpiece, which takes up the vibrations from the voice in the ear canal, and sends it via the radio to the receiving destination. This way of communicating is called 'earspeech'.



Advantages

- Wearer comfort
- User friendly
- Optimal speech intelligibility
- Easy to use
- Easy to combine with protective clothes and/or gas suits with breathing apparatus
- Compatible with a large range of 2-way radios
- Hands free use

Specifications

Classification: Half duplex communication system based on ear speech principle

Design: Standard full concha

Material: Hypoallergenic acrylic

Weight: ± 15gr

Identification: unique numbering

Special parts:

- Leaktest canal
- Red and blue caps (L-R coding)
- Miniature microphone and speaker
- Kevlar reinforced cable
- Durable Lemo connector for connection to PTT interface
- Ear gear (ear holder and strain relief)

Attenuation:

- Average amount of attenuation: 27 dB (1 KHz)
- Adjustable attenuation optional

Electronic specifications:

- DC-resistance: 1490 Ohm
- Impedance: 6300 Ohm (at 1 KHz)
- Total Harmonic distortion: 1,4 % (at 800 Hz)

Options

- Various colours
- Soft canal tip

Approvals

- Intrinsically safe:
- EEx ia II C T6
- EEX ib IIB/IIC T4 (Tüv 01 Atex 1680)



Production procedure

The Varicom® can be made based on an ear impression made by our technicians. These ear impressions are used in our laboratories for the manufacturing of an individual (left or right at your choice) communication earpiece with built-in electronics and a cable supplied with a durable Lemo connector for connection to the PTT interface. A second visit by our technicians will take place for the fitting and the necessary checks on comfort and leaktightness.



Budget solution

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