

HANDS-FREE INTER-COM, Basic Model 11-11157



Application:

The 11-11157 Hands-Free Intercom provides basic “hands free” communication. It is designed to operate on a “0-dBm” line and will enable communication between any two points. It is most often used in locations where the user has his or her hands occupied and cannot operate a talk/listen switch, or may be some distance from the unit, as in a crew lounge. Unlike a “conventional” intercom, the “hands free” intercom is in the transmit mode until it senses a +24 Volt simplex signal on the communication wire pair, when it shifts to the receive mode.

Features:

Modular (RJ45) line connector.

Circuit board jumpers for configuration of several parameters:

- 2-Wire/4-Wire operation

- 600 Ohm or Hi-Z termination

- DC blocking

Automatic level circuits in transmit and receive circuits help keep audio levels constant while “downward expansion” minimizes line noise.

Audio power amp with short circuit and over-temperature protection.

Long-life, sealed reed-type Call-Talk switch.

TVS Line protection.

Provided with an external AC power supply, but can also be powered with a 12 VDC supply (e. g., “12 V” battery).

Cross mute (ground), Auxiliary PTT Contacts and PTT foot switch contacts standard.

Choice of microphones: Electret standard, gooseneck or desktop dynamic microphones available as an option.

Operation:

The microphone is normally “hot” and the LED in the Call/Talk push button is illuminated. The user simply speaks toward the unit to transmit. For this intercom to receive, the device transmitting to it must send a simplex DC +24 Volt signal on the same wire pair as the audio. While receiving, the LED in the push button is turned off.

Momentarily depressing the “Call/Talk” button places +24 V DC simplex signal on the line. This is normally used to perform a call-in to the equipment at the other end. It also allows a conver-

sation between two Hands-Free Intercoms.

Physical Description:

The 11-111557 Intercom is built in a rugged enclosure, comprised of a heavy gauge, hard anodized aluminum base and a painted, cold rolled steel top panel. Line, power and auxiliary connections are all made at the back of the intercom. Receive sensitivity, microphone sensitivity and transmit level adjustments are available at the bottom of the intercom. Jumper selections and any further level adjustments are made inside the case.

Specifications:

- Construction: Heavy gauge, hard anodized aluminum base with painted steel upper panel.
- Size: 6 7/8" wide x 4 5/8" tall x 7 5/8" deep.
- Line Type: 2-wire and 4-wire, "0dBm" communication lines.
- Receive Level: -20 to +12 dBm, with ALC knee set at -26dBm.
- Transmit Level: -26 to +3 dBm into 600 Ohms.
- Speaker: 3 1/2 inch, heavy duty with water-resistant cone.
- Audio Output: 1 Watt (Can be factory adjusted to 4 Watts upon request).
- Power Supply: Nominal 12 VDC, 2.1 mm jack with center positive, externally accessible fuse.
- Line Connections: RJ45 connector on back panel.
- Auxiliary connections via pluggable connector accessible from rear of unit. Aux. connections include PTT foot switch, ground cross mute and Aux. Relay contact. Aux. Relay contact is a "Form A" contact, factory configurable to provide an isolated closure, a pull-to-ground or a pull-to-+12 VDC.
- Available adjustments: Receive Sensitivity, Transmit Level and Microphone Sensitivity.
- Push button with reed switch for long life. Switch illuminated with long-lasting LED.

Ordering Information:

11-11157 Hands-Free 2-Wire/4-Wire Intercom w/Call Tone

- To substitute a dynamic microphone on a gooseneck for the standard electret microphone, add "M" to the part number.
- To substitute a desk-style dynamic microphone with a PTT switch, add "D" to the part number.
- To add headset jacks for a "Plantronics-Style" headset using P-10 plug prong, add "H" to the part number.

Example: For a console with a gooseneck microphone and headset jacks, the part number is 11-11157MH

Other optional equipment:

HSX-1010-00 Heavy Duty Foot Switch for Push-to-Talk

11-16001 Wall-Mount Kit. Includes brackets and hardware to mount your console on a vertical surface