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## 2-WIRE/4-WIRE INTERCOM w/DTMF Model 11-11156



### **Application:**

The 11-11156 DTMF Intercom provides basic 2-wire or 4-wire voice communication along with DTMF encoding and decoding. It is designed to operate on a “0-dBm” line and enables communications between any two points. Local communication can be accomplished with direct “hard wiring” between the intercoms. Long distance communication can be accomplished with standard leased lines, microwave, etc. It can also be incorporated into popular VOIP/ROIP systems.

### **Features:**

Modular (RJ45) line connector.

Circuit board jumpers for configuration of several parameters:

- 2-Wire or 4-wire operation
- 600 Ohm or Hi-Z termination
- DC blocking

Automatic level circuits in transmit and receive circuits help keep audio levels constant. ALC can be defeated with jumpers on the circuit board.

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

Long-life, sealed reed-type talk switches.

TVS Line protection.

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

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

Choice of microphones: Electret standard, gooseneck or desktop dynamic microphones are options.

Call/Mute Switch allows user to mute the receive audio. This switch turns on solid when activated and will flash when a DTMF call-in has been received (see below).

Several DTMF features are included:

- The 4 x 4 DTMF touchpad allows the user to transmit all 16 DTMF digits
- DTMF decoder allows a “normal” and a “9-1-1” call-in.
  - The “normal” call-in allows an address up to 12 digits in length. When this address is decoded, the buzzer momentarily sounds and the “Call/Mute” starts flashing. If the receive audio was muted with the “Call/Mute” pushbutton, it remains muted. The buzzer will sound every 20 seconds and the “Call/Mute” pushbutton will flash until the call is acknowledged.
  - The “9-1-1” call-in is factory set to 9-1-1, but can be changed by the user. When this code is received and decoded, the buzzer sounds more urgently than a normal call-in and the “Call/Mute” starts flashing at a rate faster than a normal call-in. The buzzer will again sound every 10 seconds until the call is acknowledged. If the receive audio was muted when the 9-1-1 call was received, it will unmute automatically.

## **Operation:**

Operation of the DTMF intercom is simple – to transmit, actuate the talk switch. To call a remote location using DTMF, press the corresponding DTMF digits. Memory dial is also available.

When a “normal” DTMF call has been received, the internal buzzer will sound momentarily and repeat every 20 seconds until either the Talk or Call/Mute switch has been pressed. When a “9-1-1” DTMF call has been received, the intercom will unmute (if it was muted), the internal buzzer will sound a series of beeps every 10 seconds and the Call/Mute switch will flash (at a faster rate than with a “normal” call-in), until either the Call/Mute or Talk switch is pressed.

## **Physical Description:**

The 11-11156 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 .
- Power Supply: Nominal 12 VDC, current requirement varies with model, 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, field configurable to provide an isolated closure or a pull-to-ground.
- Available adjustments: Receive Sensitivity, Transmit Level and Microphone Sensitivity.
- DTMF Decoder: User programmable with two addresses: one "standard" and one "9-1-1".
- DTMF Encoder: Touchpad for sending DTMF digits. Multiple numbers can be programmed for "speed dialing".
- Push buttons with reed switches for long life. Switches illuminated with long-lasting LEDs.

## **Ordering Information:**

11-11156 2-Wire/4-Wire Intercom w/DTMF

- 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 11-11156MH.

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.

37-91073 Replacement Power Supply

PB\_11-11156-0002 07/2013 Specifications subject to change.