



RADIO CONTROL CONSOLE, Tone, Single Freq., w/DTMF Model 17-11010

Application:

The 17-11010, Single Frequency, Tone Control, Radio Console with DTMF Encoder & Decoder provides the ability to control a single frequency remote radio that is connected to a "tone remote adapter". It is a 2-wire or 4-wire device designed to operate on nominal "0-dBm" lines. It also allows the user to send and receive DTMF tones. All 16 DTMF tones can be transmitted and decoded. Two incoming DTMF addresses are available: One is a "normal" call-in and the other is a "9-1-1" call-in.

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 while "downward expansion" minimizes line noise.

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

Long-life, sealed reed-type talk switches.

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.

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:

The 17-11010 is normally in "receive". To talk over the remote radio, the operator presses the "Radio Talk" switch. This results in voice and control tone being sent over the wire pair. To send voice only (no control tones), press the "Intercom Talk" switch instead. To send DTMF tones, press the corresponding DTMF push buttons. To transmit DTMF over the radio, depress the "Radio Talk" switch while sending the DTMF tones.

The "normal" DTMF call-in results in a momentary sounding of the piezo alerter and the "Call" light will flash until the "Talk" switch is actuated. If the receive audio is muted when the call comes in, it will remain muted. A "9-1-1" call-in will result in the receive audio becoming unmuted (if it was muted), a more "urgent" sounding of the piezo alerter and a more rapid flashing of the "Call" LED.

Physical Description:

The 17-11010 Radio Control Console 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.
- 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:

17-11010 Radio Control Console, Tone Control, Single Frequency

- 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 17-11010MH

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