

RADIO CONTROL CONSOLE, Current Loop, Dual Frequency, Model 17-11004



Application:

The 17-11004, Dual Frequency, Current Control, Radio Console, provides the ability to control a dual frequency remote radio that is connected to a "current remote adapter". It is a 2-wire device designed to operate on nominal "0-dBm" lines. The power supply included with the console has an adjustable current source.

Features:

Modular (RJ45) line connectors.

Circuit board jumpers for configuration of several parameters:

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, including 12 VDC for console operation and current source for loop current.

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 17-11004 is normally in "receive". To talk over the remote radio, the operator presses the "F1" or "F2" switch. This results in voice and loop current being sent over the wire pair. To send voice only (no loop current), press the Intercom switch instead.

Physical Description:

The 17-11004 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. The power supply provides the 12 volts for the console itself as well as the loop current for radio control. Cabling is included allowing quick & easy connection of the power supply to the console.

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, and current source for loop keying current, current adjustable at the power supply, provided with cable from power supply to console, externally accessible fuse. "F1" current adjusted to a nominal 6.5 mA and F2 at 15 mA. These are user-adjustable, with an F1 range of 4 to 8 mA and F2 range of 8 to 18 mA.
- 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 buttons with reed switches for long life. Switches illuminated with long-lasting LEDs.

Ordering Information:

17-11004 Radio Control Console, Current Loop, Dual 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 17-11004MH

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