

DC Loop Remote Radio Adapter Model 17-95133



Application:

The LMG 17-95133 Radio Repeater/DC Controller is engineered to allow the user to:

1. Control a remote radio via DC loop current and/or
2. Control two radios in a repeater configuration.

Features:

The Radio Repeater/DC Controller offers many features, enabling it to perform well in varying conditions:

- Automatic Level Control for radio receive audio (demod) to compensate for varying line conditions.
- Dual current F1/F2 operation.
- Front mounted test jacks: Insert & monitor jacks for receive & transmit.
- PTT LED on front panel.
- F1/F2 PTT switch on front panel.
- All connections on pluggable connectors for easy service
- Provided with mounting brackets and rubber feet for installation versatility
- All connections are protected by Transient Voltage Suppressors

Operation:

DC Current Loop Remote Radio Controller:

Used as a Remote Radio Controller, the 17-95133 provides the interface between a remote radio and the 2-wire communication line from the user console. When no DC control signal is present, the radio demod audio is sent from the radio to the console. When the console sends a DC loop current along with audio to the Controller, the Controller actuates the radio's PTT and sends the audio to the radio for transmission. The Controller can be used with dual-frequency radios using nominal 5 and 10 mA current loops.

Radio Repeater Controller:

Used as a Repeater Controller, it monitors the squelch signal of the Receive radio. When the Squelch signal is detected, it will actuate the PTT of the Transmit radio and send the audio from the Receive radio to the Transmit radio.

The controller can also be set up to be a Remote Radio Controller and Radio Repeater Controller simultaneously. In this situation, the console operator is able to monitor the repeater audio.

Physical Description:

The 17-95133 is available in stand-alone and rack-mounting models. The enclosure is an aluminum extrusion with a removable aluminum bottom, front and rear panels. The unit comes with rubber feet as well as mounting brackets, to provide installation flexibility. For rack mounting, a rack-mounting panel is available that can accommodate up to three controllers.

Specifications:

Input Power	12 VDC Nominal (10.5 to 14.0), current @ idle: Less than 45 mA, Max current (F1 & F2 relays energized): Less than 100 mA
Circuit Type	2-Wire audio with DC Current Loop
F1/F2:	PTT: 5 mA or more, F1: less than 10mA, F2: 10 or more mA
Levels	Audio from line to coupler: -25 to +10 dBm (ALC Circuit to maintain level from console) Audio from coupler to line (600 Ohm): -25 dBm to +5 dBm Audio from coupler to radio: Mic level (50 to 75 mvolt) Audio from radio to coupler: -20 dBm to +20 dBm
Temperature Range:	Operating: -30 C to +70 C Storage: -40 C to + 80 C
Size:	Without bracket, including connectors and switch: 8 1/4 x 5 1/2 x 1 3/4" With Mounting Bracket: 8 1/4 x 6 3/4 x 2"
Weight:	(Including Mounting Bracket): Less than 1.5 Lbs.

Ordering Information:

17-95133:	DC Loop Remote Radio Adapter.
17-55064	Rack-Mounting plate, accommodates up to three Adapters.
69-92028	Circuit Card, With Test Jacks and Local PTT Switch.