

# Multi-Channel Products for Motorola Radius and Maxtrac



**MCR210** The MCR210 is a telephone style remote control unit that is designed to control Motorola's 200 series Radius, GM300, and Maxtrac 300 conventional radios, and 20 channel M1225 radios when used with the correct CPI MCP200 series termination panel. The remote provides LED displays for channel indication, channel up and down buttons, PTT indicator, on-hook PTT capability, monitor button and indicator, intercom button, scan button and indicator, and speaker volume control. The MCR210 allows incoming calls, as well as transmissions using the radio microphone, to be received through the speaker in the remote and transferred to the earpiece when the handset is removed from the cradle. Transmissions made from a remote are heard on all parallel remotes as well as over the radio speaker. The MCR210 allows for intercom capability between parallel remotes and between remotes and the radio. The channel display and indicators on all remotes mirror that of the radio.

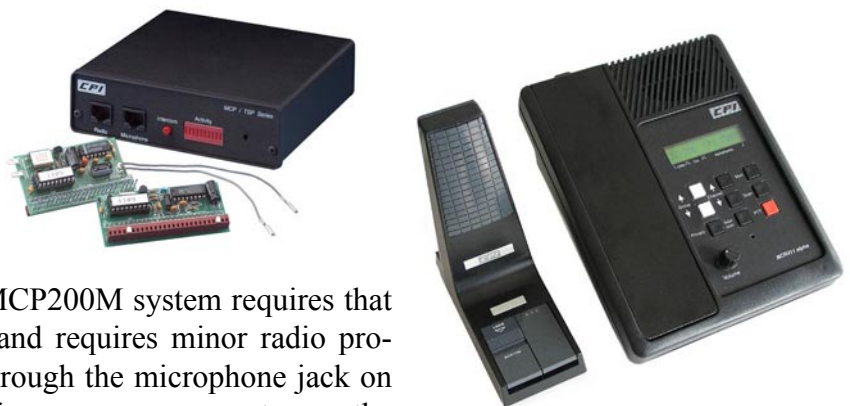
**MCR210 alpha** The MCR210 alpha is an enhanced version of the MCR210 telephone style remote control unit that works with the same radio systems as the MCR200 series. The unit includes all of the features of the MCR210 and these added features: LCD display shows channel number and 10 character user programmable channel name; Select button - allows more scan functions; Privacy mode - mutes parallel remotes for private conversations. The Alpha units can be mixed with the MCR200 series when operated in two-wire mode. The alpha series is -4W/FD capable when used with a -4W/FD panel allow operation over a microwave or other full duplex system. The alpha series is also available in a **desk microphone version**. The **MCR210A-DM** has all of the features of the MCR210A but provides a desk microphone instead of handset.



**MCR220** The MCR220 is a console style remote unit with desk microphone that is designed for use with Motorola's 200 series Radius, GM300, and Maxtrac 300 conventional radios. The MCR220 remote has all of the same button functions and LED indicators as the MCR210. The MCR220 allows incoming calls, as well as transmissions using the radio microphone, to be received through the speaker in the remote. Transmissions made from a remote are heard on all parallel remotes as well as over the radio speaker. The MCR220 allows for intercom capability between parallel remotes and between remotes and the radio.

**MCR250** The MCR250 is a 19" single height rack mount version of the MCR210 that has a built in electret microphone. A desk microphone is optional on this unit.

**MCP200 series termination panels** There are three MCP200 series termination panels for use with the above remotes. The **MCP200** (M216 and Maxtrac 300), **MCP200G** (GM300), and the **MCP200M** (20 channel M1225). Each of these units use an in radio adapter board to communicate with the radio. There is no cutting or soldering involved with the install. The MCP200M system requires that the radio be dedicated to remote operation and requires minor radio programming. The units connect to the radio through the microphone jack on the MCP200 and MCP200(G) and the 16 pin accessory connector on the MCP200M.



# MCR/MCP Series Specifications

## MCR Series

Power Requirements	120 VAC, 60Hz for wall pack operation
Indicators	2 watts minimum (in compression) into 8 ohms with less than 3% distortion using supplied power pack
Controls	Less than 3 dB increase in output with 30 dB increase beyond threshold of compression.
Line Input level	-20dBm tp +10 dBm
Line output level	-20dBm tp +10 dBm
Line impedance	200K ohms on-hook/idle 600 ohms off-hook/idle
Receive compression	Less than 3dBm change in output for 30 dBm change in input above thresh-hold
Speaker output	2 watts (speaker mutes when off-hook)
Max number of remotes	50
Dimensions/ Weight	9" x 4" x 7" / 4lbs.
Connections	4 pin modular for handset. RJ11 for desk microphone and phone pair

## MCP Series

Power Requirements	13.6 Vdc limited to 100 mA. Power taken from radio connections.
TX Control	Adjusts audio level to the radio microphone input
RX Control	Adjusts audio level to phone line. Adjustable from -20 to +10 dBm
Setup	Used for test mode on power up
Line balance	Used to match the termination panel to the phone line
Phone line impedance	600 ohms
Connections to phone line	Two wire via modular phone jack. Four wire optional.
Connections to radio	Supplied cables plug into the DB25 or KCT19 connector.
Max number of remotes	50
Dimensions/ Weight	1.6" x 5.5" x 5.5" , 1.5 lbs.

## Option

## Description

-4W/FD	full duplex operation for MCP panel, - compatible only with Alpha series units
-DE	DTMF encoder
-UE1	multi-format encoder
-BLK	unit is black in color
-WM	wall mount kit
-220V	220 volt wall pack transformer