



## Multi-Channel Products for Motorola CM300 Radios

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**MCR212 alpha** The MCR212 alpha is a telephone style remote control unit that controls the Motorola CM300 series mobiles over any 2 wire voice grade circuit. The unit includes the following features: Channel up and down buttons, Scan, Monitor, and Intercom functions. The LCD display shows the selected channel number and 10 character user programmable channel name. Privacy mode mutes parallel remotes for private conversations. The alpha series is -FD capable when used with the -FD panel option allowing operation over a microwave or other full duplex system. The alpha series is also available in a **desk microphone version**. The **MCR212A-DM** has all of the features of the MCR212A but provides a desk microphone instead of handset. Channel change and radio transmissions can be made at the radio site but local radio mic audio is not passed to remotes.

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**MCP200CM** series termination panel - The **MCP200CM** termination panel connects the MCR remotes to the radio. The panel uses an in-radio adapter board to communicate with the radio. This is a simple plug in connection with no cutting or soldering involved. The MCP200CM system requires that the radio be dedicated to remote operation and requires minor radio programming. The MCP200CM connects to the radio through the 16 pin accessory connector. The MCP200CM comes standard as a 2 wire unit. -4W/FD is optional.



# 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