Multi-Channel Products for Motorola's® Radius® & Maxtrac®

MCR210 The MCR210 is a telephone style remote control unit designed for use with the Radius 200 series, GM300, SM120, M1225, M1225LS and Motorola's Maxtrac 300 conventional radios. 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 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. The MCR210 allows for intercom capability between parallel remotes. The channel display and indicators on all remotes mirror that of the radio.

MCR220 The MCR220 is a console style remote control unit, with desk microphone designed for use with the Radius 200 series, GM300, SM120, M1225, M1225LS and Motorola's Maxtrac 300 conventional radios. 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 MCR220 allows incoming calls to be received through the speaker in the remote. Transmissions made from a remote are heard on all parallel remotes. The MCR220 allows for intercom capability between parallel remotes. The channel display and indicators on all remotes mirror that of the radio.

MCR250 The MCR250 is a single height, 19" rack mount remote control unit designed for use with the Radius 200 series, GM300, SM120, M1225, M1225LS and Motorola's Maxtrac 300 conventional radios. The remote provides LED displays for channel indication, channel up and down buttons, PTT button and indicator, monitor button and indicator, intercom button, scan button and indicator, panel mounted electret microphone and speaker volume control. The MCR250 allows incoming calls to be received through the speaker in the remote. Transmissions made from a remote are heard on all parallel. The MCR250 allows for intercom capability between parallel remotes. 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 remote control unit designed for use with the Radius 200 series, GM300, SM120, M1225, M1225LS and Motorola's Maxtrac 300 conventional radios. The most noticeable enhancement is the addition of a Liquid Crystal Display. The LCD displays the channel number and up to ten characters of a user programmable channel name. Also added is the SELECT button, which allows more control of the radios scan functions. The new PRIVACY button, when pressed, will mute all parallel remotes allowing a private conversation between you and the mobile unit. Older MCR210s may require a software upgrade to allow muting to take place. The speaker audio output has also been increased to two watts. Please note: radio functions that require an extended push and hold of a front panel button are not supported from the remote.

MCP200 series Termination Panel The are five models of MCP200 series termination panels. The MCP200 - for use with Maxtrac 300 series and Radius M200 series radios; the MCP200G - for use with Radius GM300 radios; the MCP200M - for use with Radius M1225 20 ch; the MCP200MLS - for use with Radius M1225LS radios; and the MCP200S - for use with Radius SM120 radios. All models consists of two parts. The first is a small adaptor board that is installed in the radio. Installation is plug-in with no wire cutting, crimping or soldering involved. The second is the termination panel, housed in a rugged metal enclosure. The system may use any two wire, full duplex voice grade circuit between the radio and remote sites. Four wire interface optional.

MCR / MCP200 Series Specifications

MCR210, MCR220, MCR250 and *MCR210 alpha*		**MCP200 series - Termination Panels**	
Powe r Requirements	12 Vdc at 300 mA (alpha = 500 mA)	Powe r requirements	13.6 Vdc, limited to 100 mA. Power taken from radio microphone jack.
Indicators	Channel, PTT, Scan and Monitor. (Privacy on alpha)	TX Control	Adjusts audio level to the radio microphone input.
Controls	Channel up & down, PTT, Scan, Monitor , Interco m and volume control. (Privacy and Select on alpha)	RX Control	Adjusts audio level to phone line. Adjustable from -20 dBm to +10 dBm.
Line inpu t level	-10 dBm to 0 dBm (-20 dBm to +10 dBm on alpha)	Intercom/Tes t button	Used for test mode on power up, then for intercom.
Line outpu t level	-10 dBm to +8 dBm adj. (-20 dBm to +10 dBm on alpha)	Line balance	Used to match the MCP200 to phone line.
Line impedance	200 K ohms on-hook / idle, 600 ohms off-hook / active	Phone line impedance	600 ohms
Receive compression	Less than 3 dBm change in output for 30 dBm change in input above threshold.	Connections to phone line	Two wires via modular jack. Four wire interface optional.
Speake r output	1.2 watts at full compression (2 watts on alpha), speaker mutes when handset off-hook.	Connection s to radio	Supplied cable plugs into radio mic jack and "Radio" jack on MCP200 or MCP200G.
Intercom	Front panel microphone and intercom switch or with handset & intercom switch.		MCP200M, MCP200MLS and MCP200S - Supplied cable plugs into radio accessory connector and "Radio" jack on termination panel.
Max. no. of parallel remote s	50	Connectio n to microphone	Modular jack on front of MCP200 or MCP200G, allows use of Motorola palm or desk mic.
Connections	Modular jack for phone line and desk mic, 4 position modular jac k for handset. MCR250 has terminal strip connections for power, ground and an external handset.		This feature not available on MCP200M, MCP200MLS or MCP200S *Radio is remote operation only.*
Dimensions , Weight	5.5" x 9" x 10", 5 lbs	Dimensions & Weight	1.6" x 5.5" x 5.5", 1.5 lbs.