MC SERIES
Deskset Controllers





PRODUCT OVERVIEW

The MC Series Desktop
Controllers allow remote
access to the functions of
a compatible station
(base station, repeater,
or control station).
All MC Series Desktop
Controllers provide
tone, DC and E&M
signalling for keying and
control of stations

STANDARD FEATURES

- ► Multiple models for various applications
 - Extended Local Control for controlling an on-site radio up to 1000 feet away
 - Tone or DC Remote Control for controlling a station with 600 ohm telephone lines
- ▶ Multiple control points allow up to 10 units to operate in parallel
- ▶ Internal microphone, intercom, and speaker for convenient operation
- ► Push-to-talk (PTT) handset for private communications
- ► Monitor switch for monitoring channel activity before transmitting

MC1000 BASIC MODEL (NON-SIGNALING) FEATURES

FOR LOCAL CONTROL MODELS

- ► Single Frequency and Single Station Control
- ► Push-to-Talk Handset
- ▶ Speaker
- ➤ Speaker on/off (receive audio is heard through handset and speaker simultaneously)
- ► Volume Control
- ► Full Duplex Capability
- ► Internal Mic (for use without handset)
- ► Transmit Button with LED
- ► Monitor Button with LED

- ► Front panel programming (easy setup no RSS required)
- ► Intercom between MC1000 units and stations
- ► Operator cross mute
- ► 10 units can operate in parallel
- ► Parallel Operator Busy Indication
- ► 120 Vac 60 Hz Power Supply
- ► Can be wall mounted

FOR TONE AND DC CONTROL MODELS ONLY IN ADDITION TO LOCAL FEATURES

- ▶ 4 Frequency Single Station Control
- ► 2 or 4-Wire Audio
- ► Takeover/Line Select allows a supervisory unit to override other parallel units or allows connection of two base stations for back-up control (Main/Alt operation)

MC2000 ADVANCED MODEL (SIGNALING) FEATURES

► All MC1000 Basic Model features plus:

► 110/220 Vac 50/60 Hz Power Supply

► Parallel Status (Tone model only)	Each deskset operator knows the selected frequency and status of the station
► Programmable Voice Delay	User can speak immediately after pressing PTT or Transmit bar without
	message truncation

- ► Desk Mic Compatible......Allows another choice of audio accessory
- ► MDC1200 Signaling and Paging......Operator can selectively signal pagers, portables, or mobile radios Supports the following: (E/D; E = Encode, D = Decode)

 - Voice Alert......Allows dispatcher to alert specific user prior to critical voice transmission
 - Call Alert/Short Call Alert (E/D)Informs the user to call-in by sending a "page" to their portable or mobile

 - Emergency Alarm (D)......Flashing display, audible tone, and an output for external alarms can alert the console operator of emergency situations
 - Recent User Stack.......Allows last nine records to be stored for review at a later time
 - RS232 Printer Port......Allows RSS programming via computer or the logging of MDC1200 inbound/outbound message activity for permanent record keeping on a serial printer
 - Alert Tone3 alert tones are supported

MC2000 ADVANCED MODEL (SIGNALING) FEATURES (cont'd)

► Paging Encoder	Integrated paging encoder supporting 2 Tone, Quik-Call I & II, DTMF, 5 Tone, 6 Tone,
	GE99, NEC5, NEC6, Reach 1+1, Pulse and custom 2-tone with aliasing
► 18 Programmable Buttons	Allows for deskset flexibility. Button usage may include single button paging, fast
	access to paging or MDC1200 signalling, alert tones, frequency selection, speaker
	mute, relay control and wildcards
► Frequency Control	16 Frequency Control (Tone) and 4 Frequency Control (DC) with alias names
► DTMF Decode	Allow ANI (Automatic Number Identification) or selective call mode of operation
► Securenet Compatible	Allows control of coded/clear modes of operation on Motorola secure
	equipped stations
► RSS Programming Available	
► External connectors	For power, RSS/printing, base station connections, and desk mic
► 2 line x 20 character backlit display	Displays important, easy to read information to the operator such as channel status,
	alias names, emergency ID's, status/message information and VU meter

MC2500 MULTI-CHANNEL MODEL FEATURES

► All MC2000 Advanced Model features plus:

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► 4 channel control	Controls up to 4 radios or base stations. Includes ability for DC control on 1 channel
► Individual channel select and instant transmit	Individual status indicators and control
► Unselect speaker connector	Allows connection of unselect speaker to separate audio for ease of operation
► Individual volume control	Each channel has individual volume control
► All mute	Mutes audio on the unselected channels
► Dedicated logging recorder output	Fixed 600 Ohm output (no keying tones) with all audio summed for recording
► Radio Patch	Patch any two channels
► Multi-Select	All four channels can be selected for simultaneous transmit

ACCESSORIES

FOR EXTENDED LOCAL CONTROL

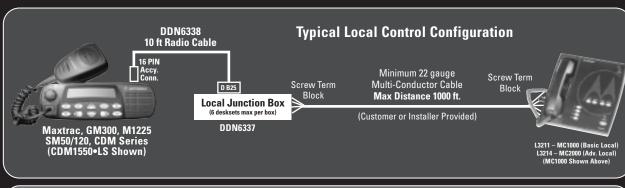
➤ Junction Box connects up to six local desksets to the station. When 7-10 desksets are operating in parallel, two junction boxes are required.

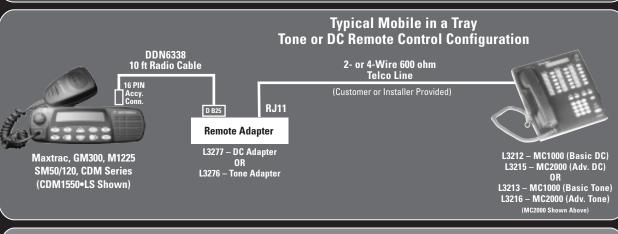
TONE AND DC REMOTE CONTROL ADAPTERS

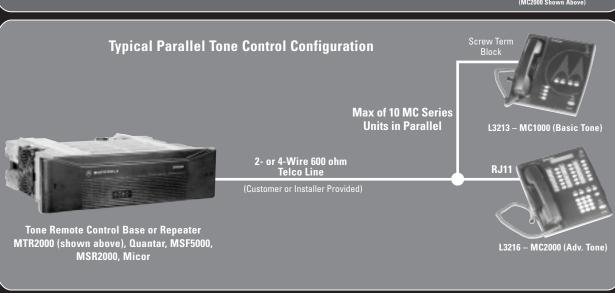
Tone and DC Remote Adapters allow local control base stations to be controlled remotely via a Tone or DC Remote Deskset. Each adapter will accept up to 10 desksets.

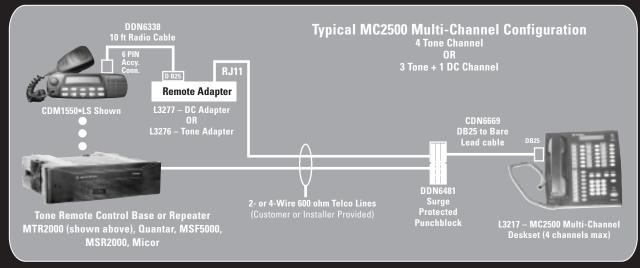
STANDARD	FEATURES	
Tone (L3276)	DC (L3277)	
LED Indicators for Power, Line PTT, Monitor, Squelch Detect, Accessory Port and Desk Mic	LED Indicators for Power, Line PTT, Monitor, Squelch Detect, Accessory Port F1, F2, F3 and F4	
Local Desk Mic Port	N/A	
16 Function Tone Decode	5 DC Current Detects	
2 or 4-wi	re Audio	
Accessory Port used for loca	l deskset or data applications	
Accessible audio	level adjustments	

Rackmountable



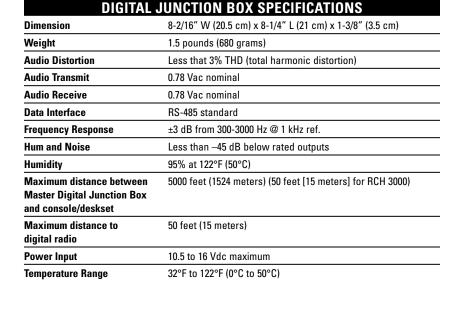






	DESKSET	SPECIFICATIONS	
	Local Deskset MC1000 - L3211 MC2000 - L3214	DC Remote Deskset MC1000 - L3212 MC2000 - L3215 MC2500 - L3217	Tone Remote Deskset MC1000 - L3213 MC2000 - L3216 MC2500 - L3217
Dimension	3.75" H x 8.5" W x 9.9" D (9.53 cm H x 21.59 cm W x 25.14 cm D)		
Weight	Maximum 3.75 lb. (1.7 kg)		
Temperature Range	32°F to 122°F (0°C to 50°C)		
Humidity		95% at 122°F (50°C) (non-condensing)	
Power Input: MC1000 Models MC2000 Models MC2500 Models		+12 Vdc/1 A max +12 Vdc/2.5 A Max +12 Vdc/1 A, -12 Vdc/0.2 A, +5 Vdc/2 A	
Frequency Response	300 to 3300 Hz +3, -3 dB @ less than 3% distortion		
Hum and Noise	45 dB below rated output at any port		
Audio Distortion	Less than 3% THD		
Audio Output to Speaker	.8 W (1 W peak)		
Line Impedance	600 or 10 K Ohm, or differential		
Receive Audio Input	300 mv AC Adjustable from -30 to +11 dBm		
Transmit Audio Output	80 mv AC Adjustable from -30 to +11 dBm		
Maximum Number of Desksets	10 in Parallel		
Control Functions (Maximum): MC1000 Models MC2000 Models MC2500 Models	PTT + Monitor PTT + Monitor	4 Freq Select + Monitor 4 Freq Select + Monitor 4 Freq Select + Monitor	4 Freq Select + Monitor 15 Freq Select + Monitor 15 Freq Select + Monitor
Number of Radios: MC1000 and MC2000 Models MC2500 Models	1	1 1 Max	1 4 Max
Outputs and Inputs: PTT Relay Monitor/Aux Outputs Aux Inputs	Form C dry closure. 150 mA, 60 Vdc non-inductive load. Form C dry closure. 150 mA, 60 Vdc non-inductive load. Opto-coupled inputs, 5 K Ohms impedance, 5 to 20 MA input current, unbalanced.		
Recorder Port (MC2500 only)	Nominal output –10 dBm @ 600 Ohm		
Auxiliary/Paging Input (MC2500 only)	Nominal output –10 dBm, balanced 600 Ohm input		
All Mute (MC2500 only)	–24 dB or full muting of unselected channels, timer programmable 1 to 255 seconds or infinite durations.		

	REMOTE ADAPTER SPECIFICA	ATIONS	
	DC (L3277)	Tone (L3276)	
Dimensions	Approximately 8.2" W (20.8 cm)	(7.3" L (18.5 cm) x 1.3" H (3.3 cm)	
Weight	Approximately 1.55 lbs (.7 kg)		
Operating Temperature Range	−22°F to 140°F (−30°C to +60°C)		
Humidity	95% at 122°F (50°C) (non-condensing)		
Power Input	10.5 to 16 Vdc max.; 250 mA typical 650 mA max.	10.5 to 16 Vdc max.; 350 mA typical 650 mA max.	
Frequency Range	± 3 dB from 300 to 3000 Hz @ 1 KHz ref.	±3 dB from 300 to 3000 Hz @ 1 KHz ref. except at 2175 Hz notch filter	
Hum and Noise	Less than –45 dB below rated output		
Audio Distortion	Less than 3% THD @ 1 KHz		
Radio Rx Input (from Radio)	32 mVac to 4.5 Vac (nominal 300 mVac). Jumper selectable to between range: 32 mVac to 500 mVac (default) or 500 mVac to 4.5 Vac		
Radio Tx Output (to Radio)	32 mVac to 800 Vac (nominal 80 mVac). Jumper selectable to between range: 32 mVac to 500 mVac (default) or 500 mVac to 800 mVac		
Line Rx Input (from consoles/desksets)	-24 dBm to 0 dBm (nominal -10 dBm into 600Ω)		
Line Tx Output (to consoles/desksets)	–15 dBm to +10 dBm (nominal –10 dBm into 600Ω)		
Max. Number of Desksets Supported	10		
Control Functions (Max.)	4 Freq. + Monitor	15 Freq. + Monitor	
Input Tolerance	±20%	±2%	





Motorola's Commercial, Government and Industrial Solutions Sector is a recipient of the prestigious 2002 Malcolm Baldrige National Quality Award. This honor demonstrates our commitment to performance excellence and quality achievement.



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Specifications subject to change without notice