

MC SERIES

Deskset Controllers



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

PRODUCT OVERVIEW

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

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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
- 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
 - PTT Unit ID (E/D) Displays unit ID of caller (250 aliases)
 - 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
 - Status/Message (D)...... Displays received status and message codes
 - Radio Enable/Disable (E)..... Allows operator to remotely enable and disable a lost or
 - stolen portable
 - Radio Check (E) Console operator can determine if a radio is on the air and
 - within range without disturbing the radio user

MC SERIES Deskset Controllers

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

 MDC1200 	Signaling	and Paging	(cont'd)
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• MDC 1200 Signaling and Paging (con-	(a)
– 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 Tone	.3 alert tones are supported
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	Allows the console to be customized to fit customer requirements
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

MC SERIES Deskset Controllers

MC2500 MULTI-CHANNEL MODEL FEATURES

• All MC2000 Advanced Model features plus:

• 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.

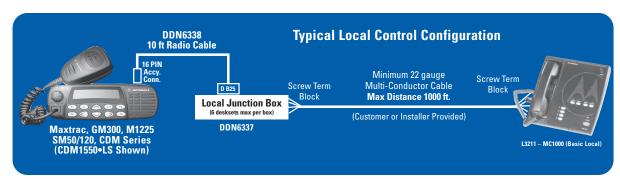
TONE AND DC REMOTE CONTROL ADAPTERS

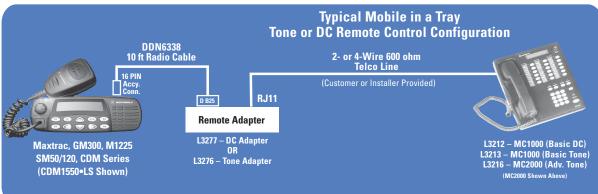
Tone and DC Remote Adapters allow local control base stations to be controlled remotely via a Tone or DC Remote Deskset. Each adapter will accept up to 10 desksets.

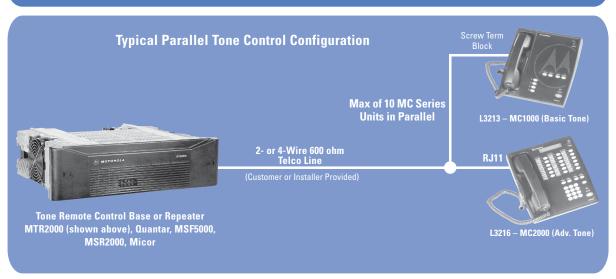
TANDARD FEATURES		
Tone (L3276)	DC (L3277)	
LED Indicators for Power, Line PTT,	LED Indicators for Power, Line PTT,	
Monitor, Squelch Detect, Accessory Port	Monitor, Squelch Detect, Accessory Port	
and Desk Mic	F1, F2, F3 and F4	
Local Desk Mic Port	N/A	
16 Function Tone Decode	5 DC Current Detects	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

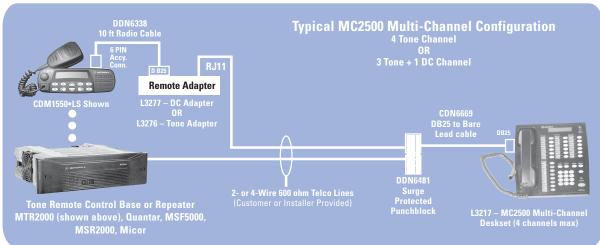
Rackmountable

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	Local Deskset	DC Remote Deskset	Tone Remote Deskset
	MC1000 - L3211	MC1000 - L3212	MC1000 - L3213
			MC2000 - L3216
		MC2500 - L3217	MC2500 - L3217
Dimension	3.75" H x 8.5"	W x 9.9" D (9.53 cm H x 21.59 cm V	V 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	j)
Power Input:			
MC1000 Models		+12 Vdc/1 A max	
MC2000 Model	+12 Vdc/2.5 A Max		
MC2500 Models	+12 Vdc/1 A, -12 Vdc/0.2 A, +5 Vdc/2 A		
requency 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	AC Adjustable from –30 to +11 dBm	
Maximum Number of Desksets		10 in Parallel	
Control Functions (Maximum):			
MC1000 Models	PTT + Monitor	4 Freq Select + Monitor	4 Freq Select + Monitor
MC2000 Models	PTT + Monitor	4 Freq Select + Monitor	15 Freq Select + Monitor
MC2500 Models		4 Freq Select + Monitor	15 Freq Select + Monitor
Number of Radios:			
MC1000 and MC2000 Models	1	1	1
MC2500 Models		1 Max	4 Max
Outputs and Inputs:			
PTT Relay	Form C d	ry closure. 150 mA, 60 Vdc non-indu	ctive load.
Monitor/Aux Outputs	Form C dry closure. 150 mA, 60 Vdc non-inductive load.		
Aux Inputs	Opto-coupled inputs, 5 K Ohms impedance, 5 to 20 MA input current, unbalanced.		
Recorder Port (MC2500 only)		Nominal output –10 dBm @ 600 Ohn	1
Auxiliary/Paging Input (MC2500	only) Nomin	al output –10 dBm, balanced 600 Oh	m input
All Mute (MC2500 only)	-24	dB or full muting of unselected chan	nels,
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timer programmable 1 to 255 seconds or infinite durations.

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	DC (L3277)	Tone (L3276)		
Dimensions	Approximately 8.2" W (20.8 cm) x 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 mVac (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/desks	sksets) –24 dBm to 0 dBm (nominal –10 dBm into 600Ω)			
Line Tx Output (to consoles/deskse	ts) —15 dBm to +10 dBm (no	minal –10 dBm into 600Ω)		
Max. Number of Desksets Supporte	ed 1	0		
Control Functions (Max.)	4 Freq. + Monitor	15 Freq. + Monitor		
Input Tolerance	±20%	±2%		
DIGITAL JUNCTION BOX SPECIFIC	ATIONS			
Dimension	8-2/16" W (20.5 cm) x 8-1/4" L (2	21 cm) x 1-3/8" (3.5 cm)		
Weight	1.5 pounds (680 grams)			
Audio Distortion	Less that 3% THD (total harmonic	c distortion)		
Audio Transmit	0.78 Vac nominal			
Audio Receive	0.78 Vac nominal			
Data Interface	RS-485 standard			
Frequency Response	±3 dB from 300-3000 Hz @ 1 kHz	±3 dB from 300-3000 Hz @ 1 kHz ref.		
Hum and Noise	Less than –45 dB below rated ou	Less than –45 dB below rated outputs		
Humidity	95% at 122°F (50°C)	95% at 122°F (50°C)		
Maximum distance between Maste Digital Junction Box and console/de		[15 meters] for RCH 3000)		
Maximum distance to digital radio	50 feet (15 meters)			
Power Input	10.5 to 16 Vdc maximum	10.5 to 16 Vdc maximum		
Temperature Range	32°F to 122°F (0°C to 50°C)	32°F to 122°F (0°C to 50°C)		

 $Specifications\ subject\ to\ change\ without\ notice.$

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