

MD60 / MD65 OIM Quick Reference

Model Numbers MD1CC, MD4LCD-PNL, and
MD4ALCD

Instruction Manual D2-3508-2

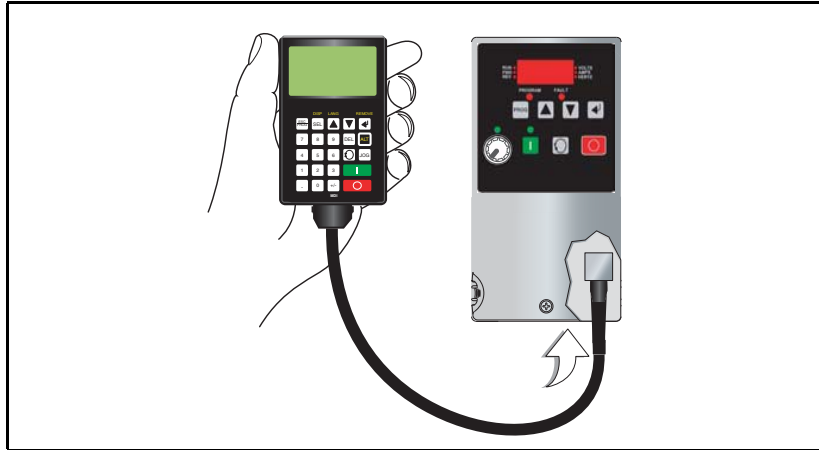


Figure 1 – MD1CC OIM Connected to an MD60 AC Drive

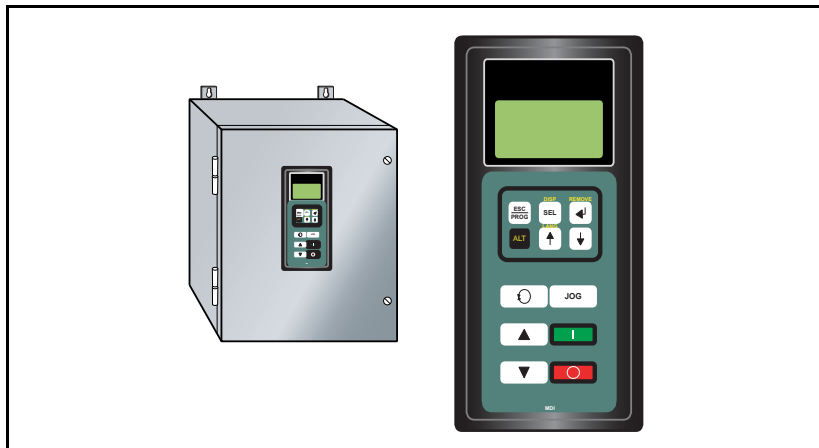


Figure 2 – MD4LCD-PNL or MD4ALCD OIM Mounted to Cabinet

MD60 and MD65 are trademarks of Rockwell
Automation.

©2004 Rockwell Automation. All rights reserved.

Rockwell
Automation

Display Descriptions

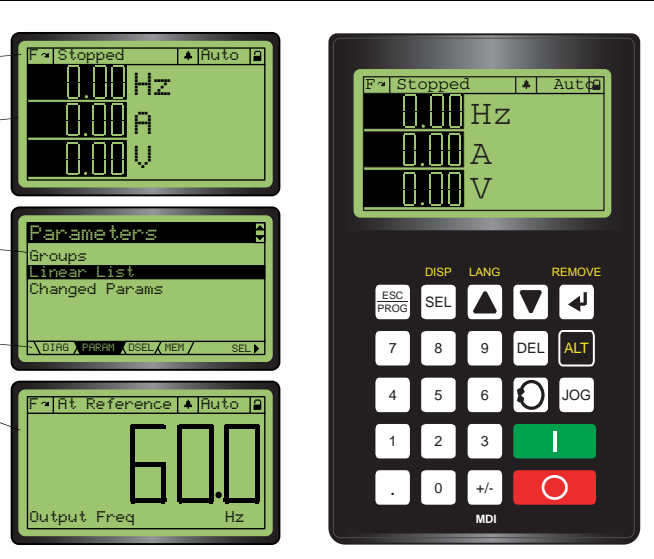



















<ol style="list-style-type: none"> 1 2 3 4 5 	
<p>1 Status Line: Direction Operating Status Drive Status Auto/Manual Mode Parameters Locked/Unlocked</p>	
<p>2 Process Display screen:</p> <ul style="list-style-type: none"> • Output Frequency • User Display Line 1 (OIM parameter 04) • User Display Line 2 (OIM parameter 05) 	
<p>3 Programming screen</p>	
<p>4 Menu Navigation tabs (use SEL to scroll through tabs)</p>	
<p>5 Large Format User Display screen</p>	

Figure 3 – Display Descriptions

Key Descriptions

Table 1 – Key Descriptions

Key	Description
	Exit a menu, cancel a change to a parameter value, or acknowledge a fault or alarm.
	Select a digit, select a bit, or select a menu tab.
 or 	Scroll through options, increase a value, or toggle a bit. Used to increase Speed Reference on MD1CC Process Display screen. ¹
 or 	Scroll through options, decrease a value, or toggle a bit. Used to decrease Speed Reference on MD1CC Process Display screen. ¹
	Enter a menu, enter edit mode in a parameter screen, or save a change to a parameter value.
	Access the function associated with a programming key: <ul style="list-style-type: none"> • ALT-DISP toggles between the Process Display and Large Format Display. • ALT-LANG selects language used (when available). • ALT-REMOVE allows the OIM to be disconnected without causing a fault.
	Start the drive.
	Stop the drive or clear a fault.
	Change direction.
	Jog the drive.
 ... 	Type parameter numbers and values. (Available only with MD1CC.)
  	
 	Speed Reference increase and decrease. ¹ (Available only with MD4LCD-PNL and MD4ALCD.)

¹ Speed Reference increase and decrease keys are operational only when the OIM is the MDI Master. See OIM parameter 10 - (M/S Status) to view the OIM's active device type.

Menu Navigation Tabs

Table 2 – Menu Navigation Tabs

Tabs	Description
DIAG	The Diagnostics tab is used for displaying faults, the device (drive or peripheral) status and version.
PARAM	The Parameter tab is used for parameter editing. Parameters can be displayed in groups, in a linear list, or only those changed from their defaults.
DSEL	The Device Select tab is used to select the device (drive or peripheral) the OIM is to access.
MEM	The Memory Storage tab is used for OIM CopyCat (uploading/downloading configurations to the OIM EEPROM).
OIM	The OIM Setup Tab is used to access OIM parameters, view the OIM version, and to edit the Reference text when a user-defined Reference is used.

Parameter List

Table 3 – OIM Parameter List

No.	Name and Description	Details
001	(Startup Display) - Selects the display screen shown when the OIM is powered up.	Default: 0 = Main Menu Values: 0 = Main Menu 1 = Process Disp 2 = Large Disp 3 = StartupParam Type: Read/Write
002	(Startup Param) - Selects the parameter to be displayed if parameter 001 (Startup Display) is set to 3 "Startup Param".	Default: 1 Minimum: 1 Maximum: 65535 Type: Read/Write
003	Reserved	
004	(User Disp Line 1) - Selects the parameter to display on User Display Line 1 of the Process Display screen. For example, setting to 3 selects parameter D003 (Output Current) on an MD60 drive.	Default: 3 Minimum: 1 Maximum: 65535 Type: Read/Write
005	(User Disp Line 2) - Selects the parameter to display on User Display Line 2 of the Process Display screen. For example, setting to 5 selects parameter D005 (DC Bus Voltage) on an MD60 drive.	Default: 5 Minimum: 1 Maximum: 65535 Type: Read/Write

Table 3 – OIM Parameter List

No.	Name and Description	Details
006	(Large Disp Param) - Selects the parameter to display on the Large Format User Display screen. For example, setting to 1 selects parameter D001 (Output Freq) on an MD60 drive. Setting to 0 enables the Scaled Reference to be displayed.	Default: 1 Minimum: 0 Maximum: 65535 Type: Read/Write
007	(LCD Contrast) - Sets the LCD contrast level.	Default: 50% Minimum: 0% Maximum: 100% Type: Read/Write
008	(Reset Device) - Setting to 1 "Reset" resets OIM. Setting to 2 "Set Defaults" resets OIM parameters to factory settings. The parameter value returns to 0 "Ready" after the reset function is complete.	Default: 0 = Ready Values: 0 = Ready 1 = Reset 2 = Set Defaults Type: Read/Write
009	(Device Type) - Selects the OIM's device type. When set to 0 "Auto," the OIM is automatically configured as either an MDI Master or Slave depending on the presence of other peripheral devices.	Default: 0 = Auto Values: 0 = Auto 1 = Slave 2 = Master Type: Read/Write
010	(M/S Status) - Displays the OIM's active device type.	Default: N/A Values: 1 = Slave 2 = Master Type: Read Only
011	(OIM Ref Preset) Zero Start - OIM Reference is always 0.0 at power on. Host Output - OIM will assume the Host's output feedback (bumpless transfer) and preset its Reference when the Reference is configured to be received on the RS-485 port. This can be verified by viewing Diagnostics/ Device Status/Remote Freq Ref = 1. Last OIM Ref - OIM will store the OIM Reference in EEPROM each time it is changed. OIM Reference is restored at power on.	Default: 0 = Zero Start Values: 0 = Zero Start 1 = Host Output 2 = Last OIM Ref Type: Read/Write
012	(Ref Scaling) - Enables or disables scaling the Reference to a user-defined value. Parameters 13-22 (Ref Units Char 1-8) are used when parameter 012 (Ref Scaling) is "enabled."	Default: 0 = Disabled Values: 0 = Disabled 1 = Enabled Type: Read/Write
013	(Ref Max Value) - Selects the user-defined value to display when the drive is running at 60 Hz.	Default: 600 Minimum: 100 Maximum: 65535 Type: Read/Write
014	(Ref Dec Position) - Selects the number of digits to the right of the decimal point for Reference.	Default: 1 Minimum: 0 Maximum: 3 Type: Read/Write

Table 3 – OIM Parameter List

No.	Name and Description	Details
015	(Ref Units Char 1)	Default: 72 ("H")
016	(Ref Units Char 2)	Default: 122 ("z")
017	(Ref Units Char 3)	Default: 32 (" ")
018	(Ref Units Char 4)	Default: 32 (" ")
019	(Ref Units Char 5)	Default: 32 (" ")
020	(Ref Units Char 6)	Default: 32 (" ")
021	(Ref Units Char 7)	Default: 32 (" ")
022	(Ref Units Char 8)	Default: 32 (" ")
	Selects the 8 characters to use for the Feedback units on the Process Display using the ISO 8859-1 character set.	Minimum: 32 Maximum: 255
	These parameters can also be configured using the "Edit Ref Text" selection in the OIM Setup tab.	Type: Read/Write

For more detailed information on programming the remote or copycat OIM, please see manual D2-3534.

This document, as well as more information about Reliance Electric products, can be found at www.reliance.com/drives.

www.rockwellautomation.com

Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53202-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 1774

Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 351 6723, Fax: (65) 355 1733

Reliance Electric Standard Drives Business, P.O. Box 248019, Mayfield Heights, OH 44124-8019 USA, Tel: (1) 888.374.8370, Fax: 440.646.7317

Publication D2-3508-2 - March 2004

© 2004 Rockwell Automation. All rights reserved. Printed in USA

P/N310488-P03