MD60 / MD65 OIM
Quick Reference

Model Numbers MD1CC, MD4LCD-PNL, and MD4ALCD

Instruction Manual D2-3508-2

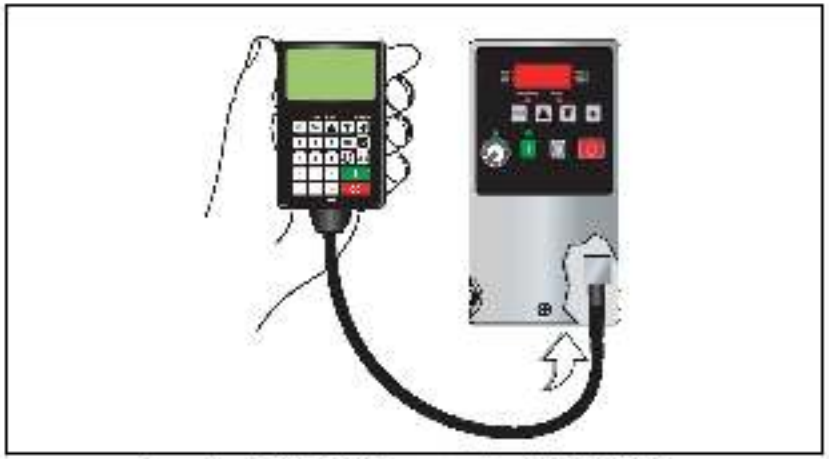

Figure 1 – MD1CC OIM Connected to an MD60 AC Drive

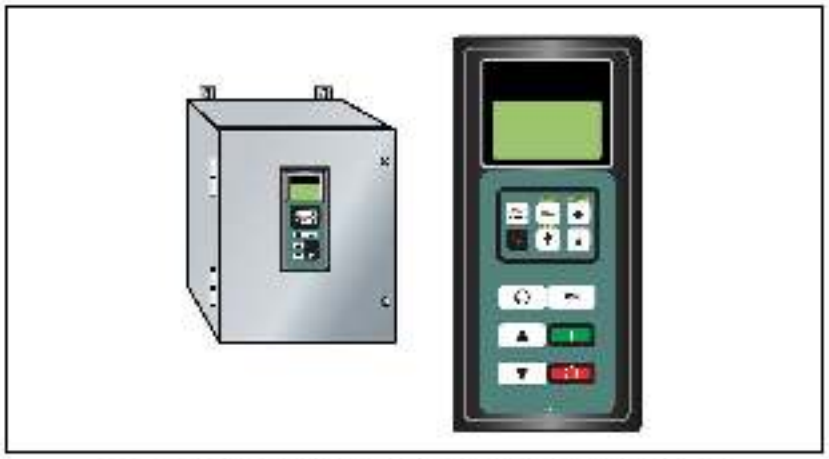

Figure 2 – MD4LCD-PNL or MD1ALCD OIM Mounted to Cabinet

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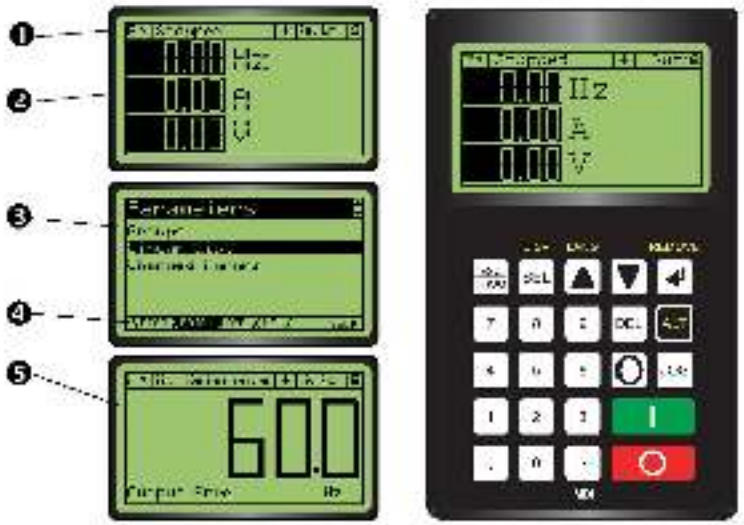
Display Descriptions



❶	Status Line: Direction | Operating Status | Drive Status | Auto/Manual Mode Parameters Locked/Unlocked
❷	Process Display screen: • Output Frequency • User Display Line 1 (DIM parameter 04) • User Display Line 2 (DIM parameter 05)
❸	Programming screen
❹	Menu Navigation tabs (use SEL to scroll through tabs)
❺	Large Format User Display screen

Figure 3 – Display Descriptions

Key Descriptions

Table 1 – Key Descriptions

Key	Description
ESC PROG	Exit a menu, cancel a change to a parameter value, or acknowledge a fault or alarm.
SEL	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.
ALT	Access the function associated with a programming key: • ALT-D SP 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.
I	Start the drive.
O	Stop the drive or clear a fault.
↻	Change direction.
JOG	Jog the drive.
0 … 9	Type parameter numbers and values. (Available only with MD1CC.)
DEL . +/-	
▲ ▼	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 15 - (MDI 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
00	**[Startup Display]** - Selects the display screen shown when the OIM is powered up.	Default: Values: Type:	0 – Main Menu 0 – Main Menu 1 – Process Disp 2 – Large Disp 3 – Startup Param Read/Write
002	**[Startup Param]** - Selects the parameter to be displayed if parameter 001 [Startup Display] is set to 3 "Startup Param".	Default: Minimum: Maximum Type:	1 1 65535 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 5 selects parameter 0003 (Output Current) on an M360 drive.	Default: Minimum: Maximum Type:	3 1 65535 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 0005 (DC Bus Voltage) on an M360 drive.	Default: Minimum: Maximum Type:	5 1 65535 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 8 – 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. These parameters can also be configured using the "Ed. Ref Text" selection in the OIM Setup tab.	Minimum: Maximum: Type:	32 255 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.

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