



# Allen-Bradley

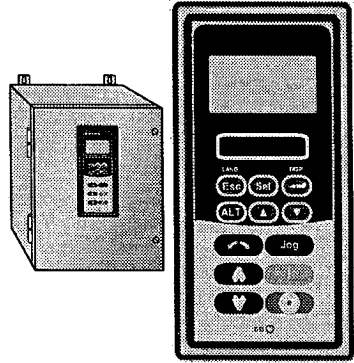
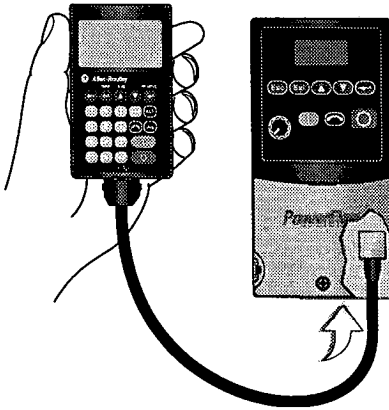
## PowerFlex® 4-Class HIM (DSI) Quick Reference Human Interface Modules (HIM)

22-HIM-A3

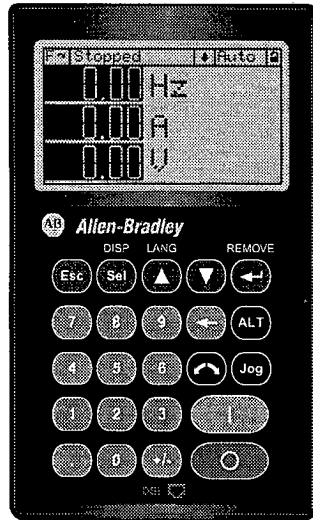
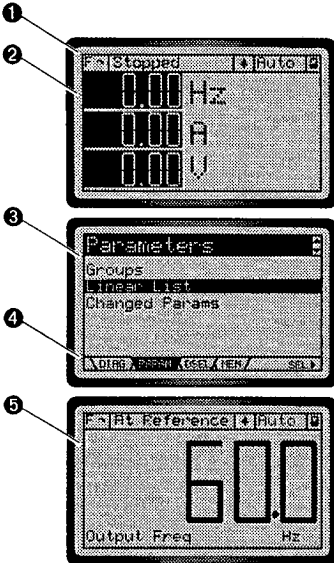
IP20 (NEMA Type 1)

22-HIM-C2 & 22-HIM-C2S

IP66 (NEMA Type 4X/12)















### Display Descriptions



Display	
1	Status Line: Direction   Operating Status   Drive Status   Auto/Manual Mode   Parameters Locked/Unlocked
2	Process Display screen: <ul style="list-style-type: none"> <li>• Output Frequency</li> <li>• User Display Line 1 (HIM Parameter 04)</li> <li>• User Display Line 2 (HIM Parameter 05)</li> </ul>
3	Programming screen
4	Menu Navigation Tabs
5	Large Format User Display screen:

## Key Descriptions

Keys	
	Exit a menu, cancel a change to a parameter value, or acknowledge a fault/alarm.
	Select a digit, select a bit, or select a menu tab.
	Scroll through options, increase a value, or toggle a bit. Used as Speed Reference increase on 22-HIM-A3 Process Display screen. <sup>(1)</sup>
	Scroll through options, decrease a value, or toggle a bit. Used as Speed Reference decrease on 22-HIM-A3 Process Display screen. <sup>(1)</sup>
	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"> <li>• ALT-DISP toggles between the Process Display and Large Format Display.</li> <li>• ALT-LANG selects language used (when available).</li> <li>• ALT-REMOVE allows the HIM to be disconnected without causing a fault.</li> </ul>
	Start the drive.
	Stop the drive or clear a fault.
	Change direction.
	Jog the drive.
	Type parameter numbers and values. (Available only with 22-HIM-A3)
	Speed Reference increase and decrease. <sup>(1)</sup> (Available only with 22-HIM-C2 and 22-HIM-C2S)

<sup>(1)</sup> Speed Reference increase and decrease keys are operational only when the HIM is the DSI Master. See HIM Parameter 10 - [M/S Status] to view the HIM's active device type.

## Menu Navigation Tabs

Tabs	
DIAG	The Diagnostics tab is used for displaying faults, the device (drive or peripheral) status and version.
PARAM	The Parameters 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 HIM is to access.
MEM	The Memory Storage tab is used for HIM CopyCat (uploading/downloading configurations to the HIM EEPROM).
HIM	The HIM Setup tab is used to access HIM parameters, view the HIM version, and to edit the Reference text when a user-defined Reference is used.

# Parameter List

Parameter			
No.	Name and Description	Details	
01	<b>[Startup Display]</b> Selects the display screen shown when the HIM is powered up.	Default: 0 Values: 0 = Main Menu 1 = Process Disp 2 = Large Disp 3 = Startup Param	0 = Main Menu 0 = Main Menu 1 = Process Disp 2 = Large Disp 3 = Startup Param
		Type:	Read/Write
02	<b>[Startup Param]</b> Selects the parameter to be displayed if Parameter 01 - [Startup Display] is set for 3 "Startup Param".	Default: 1 Minimum: 1 Maximum: 65535	1 1 65535
		Type:	Read/Write
03	<b>Reserved</b>		
04	<b>[User Disp Line 1]</b> Selects the parameter to display on User Display Line 1 of the Process Display screen.  For example, setting to 3 selects Parameter 3 - [Output Current] on a PowerFlex 4 drive.	Default: 3 Minimum: 1 Maximum: 65535	3 1 65535
		Type:	Read/Write
05	<b>[User Disp Line 2]</b> Selects the parameter to display on User Display Line 2 of the Process Display screen.  For example, setting to 5 selects Parameter 5 - [DC Bus Voltage] on a PowerFlex 4 drive.	Default: 5 Minimum: 1 Maximum: 65535	5 1 65535
		Type:	Read/Write
06	<b>[Large Disp Param]</b> Selects the parameter to display on the Large Format User Display screen.  For example, setting to 1 selects Parameter 1 - [Output Freq] on a PowerFlex 4 drive. Setting to 0 enables the Scaled Reference to be displayed.	Default: 1 Minimum: 0 Maximum: 65535	1 0 65535
		Type:	Read/Write
07	<b>[LCD Contrast]</b> Sets the LCD contrast level.	Default: 50% Minimum: 0% Maximum: 100%	50% 0% 100%
		Type:	Read/Write
08	<b>[Reset HIM]</b> Reset Device Resets HIM.  Set Defaults Resets HIM parameters to factory settings.  Parameter value returns to 0 "Ready" after the reset function is complete.	Default: 0 Values: 0 = Ready 1 = Reset 2 = Set Defaults	0 = Ready 0 = Ready 1 = Reset 2 = Set Defaults
		Type:	Read/Write
09	<b>[Device Type]</b> Selects the HIM's device type. When set to 0 "Auto" the HIM is automatically configured as either a DSI Master or Slave depending on the presence of other peripheral devices.	Default: 0 Values: 0 = Auto 1 = Slave 2 = Master	0 = Auto 0 = Auto 1 = Slave 2 = Master
		Type:	Read/Write
10	<b>[M/S Status]</b> Displays the HIM's active device type.	Default: N/A Values: 1 = Slave 2 = Master	N/A 1 = Slave 2 = Master
		Type:	Read Only
11	<b>[HIM Ref Preset]</b> Zero Start HIM Reference is always 0.0 at power on.  Host Output HIM 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 HIM Ref HIM will store the HIM Reference in EEPROM each time it is changed. HIM Reference is restored at power on.	Default: 0 Values: 0 = Zero Start 1 = Host Output 2 = Last HIM Ref	0 = Zero Start 0 = Zero Start 1 = Host Output 2 = Last HIM Ref
		Type:	Read/Write

12	<b>[Ref Scaling]</b> Enables or disables scaling the Reference to a user-defined value. Parameters 13 - 22 are used when [Ref Scaling] is "enabled."	Default: 0 = Disabled Values: 0 = Disabled 1 = Enabled Type: Read/Write
13	<b>[Ref Max Value]</b> Selects the user-defined value to display when the drive is running at 60 Hz.	Default: 600 Minimum: 100 Maximum: 65535 Type: Read/Write
14	<b>[Ref Dec Position]</b> Selects the number of digits to the right of the decimal point for the Reference.	Default: 1 Minimum: 0 Maximum: 3 Type: Read/Write
15	<b>[Ref Units Char 1]</b>	Default: 72 ("H")
16	<b>[Ref Units Char 2]</b>	Default: 122 ("z")
17	<b>[Ref Units Char 3]</b>	Default: 32 (" ")
18	<b>[Ref Units Char 4]</b>	Default: 32 (" ")
19	<b>[Ref Units Char 5]</b>	Default: 32 (" ")
20	<b>[Ref Units Char 6]</b>	Default: 32 (" ")
21	<b>[Ref Units Char 7]</b>	Default: 32 (" ")
22	<b>[Ref Units Char 8]</b> 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 "Edit Ref Text" selection in the HIM Setup tab.	Default: 32 (" ") Minimum: 32 Maximum: 255 Type: Read/Write

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