



# 1336 PLUS II Custom Firmware EN912 - Discrete Input to Output Mapping



**ATTENTION:** This Custom Firmware has been designed for a specific application and differs from the standard 1336 PLUS II product offering. It must be installed and run only under this custom application. Attempting to run this Custom Firmware under any other type of application or condition could result in unpredictable and/or hazardous conditions.

## Description

Custom Firmware EN912 differs from the standard 1336 PLUS II version 3.002 firmware in the following way:

- The ability to map (“pass through”) drive discrete inputs from an optional interface card to digital output relays has been added. Selections 20-27 have been added to the [CRx Out Select] parameters (see below).

## Digital Outputs

Digital output parameters are defined as follows:

<p>[CR1 Out Select] [CR2 Out Select] [CR3 Out Select] [CR4 Out Select]</p>	<p>Parameter Number Parameter Type Factory Default</p>	<p>158, 174-176 Read and Write "At speed" CR1 "Running" CR2 "Fault" CR3 "Alarm" CR4</p>
<p>This parameter sets the condition that changes the state of the output contacts at TB2 terminals 10 &amp; 11 (CR1), 11 &amp; 12 (CR2), 13, 14, 15 (CR3) and 16, 17, 18 (CR4).</p> <p>A change of state may mean energize or de-energize the relay, since some relays may energize on power-up and de-energize when the selected condition occurs.</p> <p>A red LED located on the Main Control Board indicates the status of the CR3 contact. The LED will illuminate when the contacts at terminals 13 &amp; 14 of TB2 are closed and terminals 14 &amp; 15 are open.</p>	<p><u>Units</u></p>	<p><u>Display</u> <u>Drive</u> "Fault" 0 Any fault "Alarm" 1 Any unmasked alarm "Running" 2 Outputting frequency "At Speed" 3 Output = command "At Freq" 4 Requires value in [Dig Out Freq] "At Current" 5 Requires value in [Dig Out Curr] "At Torque" 6 Requires value in [Dig Out Torque] "Current Lmt" 7 In overload "Mtr Overload" 8 At present levels O.L. will occur "Line Loss" 9 Line loss in progress "Drive Power" 10 Full input volts present, bus charged "Drive Ready" 11 All necessary commands present "Forward Run" 12 Forward direction "Reverse Run" 13 Reverse direction "Braking" 14 DC brake mode (stopping or holding) "Economize" 15 Auto economizer active "Auto Reset" 16 Attempt to reset fault &amp; restart drive "At Temp" 17 Requires value in [Dig At Temp] "PI Max Error" 18 Requires value in [PI Max Error] "Remote" 19 Set by [Remote CR Output]</p>
		<p>"Inp.1 TB3-19" 20 Signal present at discrete input 1 "Inp.2 TB3-20" 21 Signal present at discrete input 2 "Inp.3 TB3-22" 22 Signal present at discrete input 3 "Inp.4 TB3-23" 23 Signal present at discrete input 4 "Inp.5 TB3-24" 24 Signal present at discrete input 5 "Inp.6 TB3-26" 25 Signal present at discrete input 6 "Inp.7 TB3-27" 26 Signal present at discrete input 7 "Inp.8 TB3-28" 27 Signal present at discrete input 8</p>

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