

4.4 Changing the Displayed Units (Hz↔Rpm)

You can change the units used to display the operational speed of the inverter by setting DRV- 21 (Speed unit selection) to 0 (Hz Display) or 1 (Rpm Display).

Group	Code	Name	LCD Display	Parameter Setting		Setting Range	Unit
DRV	21	Speed unit selection	Hz/Rpm Sel	0	Hz Display	0-1	-
				1	Rpm Display		

4.5 Setting Multi-step Frequency

Multi-step operations can be carried out by assigning different speeds (or frequencies) to the Px terminals. Step 0 uses the frequency reference source set at DRV-07. Px terminal parameter values 7 (Speed-L), 8 (Speed-M) and 9 (Speed-H) are recognized as binary commands and work in combination with Fx or Rx run commands. The inverter operates according to the frequencies set with BAS-50-56 (multi-step frequency 1-7) and the binary command combinations.

Group	Code	Name	LCD Display	Parameter Setting		Setting Range	Unit
BAS	50-56	Multi-step frequency 1-7	Step Freq - 1-7	-		0.00, Low Freq-High Freq*	Hz
IN	65-71	Px terminal configuration	Px Define(Px: P1-P7)	7	Speed-L	0-55	-
				8	Speed-M		-
				9	Speed-H		-
	89	Multi-step command delay time	InCheck Time	1		1-5000	ms

Multi-step Frequency Setting Details

Code	Description																																													
BAS Group 50–56	Configure multi-step frequency 1–7.																																													
IN-65–71 Px Define	<p>Choose the terminals to setup as multi-step inputs, and then set the relevant codes (IN-65–71) to 7 (Speed-L), 8 (Speed-M), or 9 (Speed-H). Provided that terminals P5, P6, and P7 have been set to Speed-L, Speed-M and Speed-H respectively, the following multi-step operation will be available.</p> <p>The diagram shows a speed profile with steps 0 through 7. Vertical dashed lines indicate the timing of input signals: P5 (active during steps 1, 2, 5, 6), P6 (active during steps 2, 3, 6), P7 (active during steps 4, 5, 6, 7), FX (active during steps 0, 1, 2, 3), and RX (active during steps 4, 5, 6, 7).</p> <p>[An example of a multi-step operation]</p> <table border="1"> <thead> <tr> <th>Speed</th> <th>Fx/Rx</th> <th>P7</th> <th>P6</th> <th>P5</th> </tr> </thead> <tbody> <tr> <td>0</td> <td>✓</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>1</td> <td>✓</td> <td>-</td> <td>-</td> <td>✓</td> </tr> <tr> <td>2</td> <td>✓</td> <td>-</td> <td>✓</td> <td>-</td> </tr> <tr> <td>3</td> <td>✓</td> <td>-</td> <td>✓</td> <td>✓</td> </tr> <tr> <td>4</td> <td>✓</td> <td>✓</td> <td>-</td> <td>-</td> </tr> <tr> <td>5</td> <td>✓</td> <td>✓</td> <td>-</td> <td>✓</td> </tr> <tr> <td>6</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>-</td> </tr> <tr> <td>7</td> <td>✓</td> <td>✓</td> <td>✓</td> <td>✓</td> </tr> </tbody> </table>	Speed	Fx/Rx	P7	P6	P5	0	✓	-	-	-	1	✓	-	-	✓	2	✓	-	✓	-	3	✓	-	✓	✓	4	✓	✓	-	-	5	✓	✓	-	✓	6	✓	✓	✓	-	7	✓	✓	✓	✓
Speed	Fx/Rx	P7	P6	P5																																										
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IN-89 InCheck Time	<p>Set a time interval for the inverter to check for additional terminal block inputs after receiving an input signal. After adjusting IN-89 to 100 ms and an input signal is received at P6, the inverter will search for inputs at other terminals for 100 ms, before proceeding to accelerate or decelerate based on the configuration at P6.</p>																																													