6.18.3 Displaying the motor or the line speed

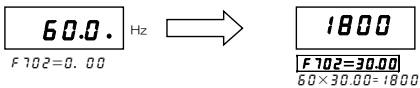
F702: Free unit display scale

- Function
  The frequency or any other item displayed on the monitor can be converted freely into the rotational speed of the motor, the operating speed of the load, and so on.

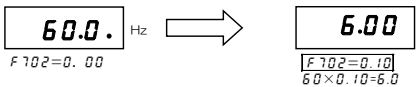
The value obtained by multiplying the displayed frequency by the F702-set value will be displayed as follows:

Value displayed = Monitor-displayed or parameter-set frequency × F702

1) Displaying the motor speed
To switch the display mode from 60Hz (default setting) to 1800min^{-1} (the rotating speed of the 4P motor)



2) Displaying the speed of the loading unit
To switch the display mode from 60Hz (default setting) to 6m/min^{-1} (the speed of the conveyer)



Note: This parameter displays the inverter output frequency as the value obtained by multiplying it by a positive number. This does not mean that the actual motor speed or line speed are indicated with accuracy.

Title	Function	Adjustment range	Default setting
F702	Free unit display scale	0.00: Disabled (display of frequency) 0.01-200.0	0.00

* The F702 converts the following parameter settings:

- Free unit Frequency monitor display: Operation frequency command, Operation frequency, PID feedback, Frequency command value After correction, Operation frequency command at trip
- Frequency-related parameters: FC, FH, UL, LL, Sr1~Sr7, F100, F101, F102, F202, F204, F240, F241, F242, F250, F265, F267, F268, F270, F271, F287~F294, F391, F505, F707

6.18.4 Changing the steps in which the value increment

F707: Free step 1 (1-step rotation of setting dial)

- Function
  It is possible to change the step width changed at panel frequency setting.
  This function is useful when only running with frequencies of intervals of 1 Hz, 5 Hz, and 10 Hz units.

Note 1: The settings of these parameters have no effect when the free unit selection (F702) is enabled.

Note 2: Set F707 to other than 0. When increasing the frequency by rotating the setting dial and if FH (max. frequency) is exceeded by rotating 1 step more, be careful as the H1 alarm displays before this happens and the frequency cannot be increased beyond this point.
Similarly, when rating the settings dial to lower the frequency, if the rotating 1 step more lowers it below LL (lower limit frequency), the L0 alarm displays before this happens and the frequency cannot be lowered beyond this point.

Title	Function	Adjustment range	Default setting
F707	Free step (1-step rotation of setting dial)	0.00: Disabled 0.01-FH (Hz)	0.00

■ Operation example

F707 = 0.00 (disabled)

By rotating the setting dial 1 step, the panel frequency command value changes only 0.1 Hz.

When F707 = 10.00 (Hz) is set

Rotating the setting dial 1 step changes the panel frequency command value in 10.00 Hz increments, from 0.00 up to 60.00 (Hz).