

Firmware Upgrade for FR-A800-R2R Inverters (FR-A800 Plus Series)

Thank you for your continued patronage of Mitsubishi Electric drive control products.
The firmware of FR-A800-R2R inverters (FR-A800 plus series) will be upgraded to improve functionality.

1. Products Affected

FR-A800-R2R inverters (FR-A800 Plus series)

2. Details of the Change

(1) Extended maximum setting value of the tension command

The maximum setting value of the tension command will be changed from 10,000 to 50,000 N.

Pr.	Pr. group	Name	Change
1401	R301	Tension command increment	The setting range of the tension command value will be changed as follows. 0: 0 to 500 N, 1: 0 to 5,000 N, 2: 0 to 50,000 N
365	R102	Tension command value (RAM)	The setting range will be 0 to 50,000 N. (When Pr.1401 Tension command increment is set to "2".)
366	R330	Tension command value (RAM, EEPROM)	
1137	R331	Tension sensor feedback bias	
1139	R333	Tension sensor feedback gain	
1281	R402	Commanded tension monitoring reference	
1283	R321	Cushion time reference tension	
1403	R311	Tension command bias	
1405	R313	Tension command gain	

(2) Functions available during tension sensor feedback torque control

The following functions will be available during tension sensor feedback torque control.

Pr.	Pr. group	Name	Change
424	R104	Dancer / tension sensor feedback input offset	The PID offset displacement function will be available to calibrate the reference value of the tension sensor feedback amount (PID measured value).
190 to 196	M400 to M406	Output terminal function selection	The following signals will be available for tension sensor feedback torque control. 16, 116: RL signal (PID forward/reverse rotation output) 47, 147: PID signal (While PID control is activated) 48, 148: Y48 signal (PID deviation limit)
554	A604	PID signal operation selection	Setting will be available for tension sensor feedback torque control.

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3. Date of Change

The change will be sequentially applied to the products manufactured in February 2019 or later.

4. Product Identification

The SERIAL (determined by date of production) can be checked on the product's rating plate.

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Symbol Year Month Control number

SERIAL

The SERIAL consists of one symbol, two characters indicating the production year and month, and six characters indicating the control number.

The last digit of the production year is indicated as the Year, and the Month is indicated by 1 to 9, X (October), Y (November), or Z (December).