

Firmware Upgrade for the FR-E800 Series General-Purpose Inverters

Thank you for your continued patronage of Mitsubishi Electric drive control products.
The firmware of the FR-E800 series general-purpose inverters will be upgraded to improve functionality.

1. Products Affected

FR-E800 series

2. Details of Change

◆ BACnet MS/TP communication specifications

Operation or parameter setting via communication is possible using the BACnet MS/TP protocol through the PU connector on the inverter.

1) Added parameters

Pr. (Pr. group)	Name	Initial value	Setting range	Description
726 (N050)	Auto Baudrate/Max Master	255	0 to 255	0 to 127: Automatic baud rate recognition is disabled. (The Pr.118 setting is used as the baud rate.)
				128 to 255: The inverter monitors the data on the communication bus, and automatically switches the baud rate. The recognized baud rate is written to Pr.118.
727 (N051)	Max Info Frames	1	1 to 255	Set the maximum number of frames that the inverter can transmit while it owns the token.
390 (N054)*1	% setting reference frequency	60 Hz	1 to 590 Hz	Set a reference frequency of the set frequency.
728 (N052)*1	Device instance number (Upper 3 digits)	0	0 to 419 (0 to 418)	Device identifier When the figure obtained by combining the Pr.728 and Pr.729 settings is not within "0 to 4194302", the setting is out of range. When Pr.728 = "419", the setting range of Pr.729 is "0 to 4302". When Pr.729 = "4303" or more, the setting range of Pr.728 is "0 to 418".
729 (N053)*1	Device instance number (Lower 4 digits)	0	0 to 9999 (0 to 4302)	

*1 The parameter is added for the standard model. (The parameter has already been available for the Ethernet model and safety communication model.)

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2) Setting values

Pr. (Pr. group)	Name	Description
52 (M100)	Operation panel main monitor selection	"81" (BACnet reception status), "82" (BACnet token pass counter (Displays the count of received token)), "83"*1 (BACnet valid APDU counter (Displays the count of valid APDU detection)), "84" (BACnet communication error counter (Displays the count of communication error)), "85" (Terminal FM output level (Same display as Analog Output 0)), and "86" (Terminal AM output level (Same display as Analog Output 1)) are added for the standard model.
774 to 776 (M101 to M103)	Operation panel monitor selection 1 to 3	The count of the setting values "82" and "83" returns to "0" if the count exceeds "9999". The upper limit of the count of the setting value "84" is "9999".
992 (M104)	Operation panel setting dial push monitor selection	
1027 to 1034 (A910 to A917)	Analog source selection (1ch) to (8ch)	
54 (M300)	FM terminal function selection	"85" is added.
158 (M301)	AM terminal function selection	"86" is added.
190 (M400)	RUN terminal function selection	"82 and 182" (Y82 (BACnet binary output)) are added for the standard model.
191 (M404)	FU terminal function selection	
192 (M405)	ABC terminal function selection	"82 and 182" are added for the standard model.*1
549 (N000)	Protocol selection	"2" (BACnet MS/TP protocol) is added.

*1 The setting values have already been available for the Ethernet model and safety communication model.

3. Date of Change

Country of origin	Date of Change
MADE IN JAPAN	The change will be sequentially applied to the September 2021 production or later.
MADE IN CHINA	The change will be sequentially applied to the October 2021 production or later.

Products with or without this function may coexist in the market depending on the inventory and distribution conditions.

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 two symbols, three characters indicating the production year and month, and six characters indicating the control number.

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