

Discontinuation of production of MELFA Smart Plus card

■ Date of Issue

April 2026

■ Applicable Model

MELFA FR Series , MELFA CR Series

We would like to express our sincere gratitude for your continued patronage of MELFA, Mitsubishi Electric's industrial robot. Starting with controller software version E4, various functions of MELFA Smart Plus, excluding the predictive maintenance function, have been included as standard features. Accordingly, please note that the MELFA Smart Plus card/card pack products, which are optional items for enabling these functions, will be discontinued. Thank you for your understanding.

1. Applicable products

The applicable MELFA Smart Plus card products are the following three model.

Name	Model	Usable functions
MELFA Smart Plus card	2F-DQ511	One of the A-type functions can be activated.
	2F-DQ510	All the A-type functions can be activated.
MELFA Smart Plus card pack	2F-DQ520	All the A-type and B-type functions can be activated.

2. Schedule

Order deadline : End of June 2026

Production discontinuation date : End of October 2026

*Since an alternative is available by upgrading the controller software version, repair support will not be provided after production discontinuation.

3. Reason for discontinuation

Since the functions supported by this product have been incorporated as standard features and the product is no longer required for its intended use, we will discontinue production.

4. Product implementation date

Starting with units manufactured in March 2026, we will gradually switch the controller software version to E4. (Please note that products manufactured before the change may be mixed in during distribution.)

Please refer to the instruction manuals for each function for usage information, as before.

Revised versions of the relevant instruction manuals, catalogs, and other materials will be provided sequentially.

BFP-A6079-0412E

5. Alternative method

By upgrading the software version to E4 or later, you can use the functions without a card.

MELFA

Smart Plus

Table 1.1 Comparison before and after the release of Version E4

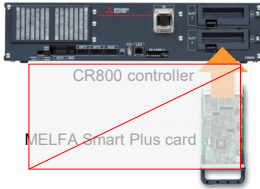
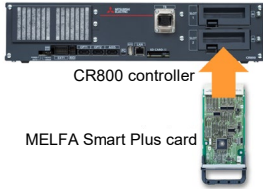
Smart Plus features		Ver.E4 and later	Ver.E4 and earlier
AI function	Predictive maintenance function	Supported by iQ Care MELFA Support (no change)	
	Force sensor extension	<u>Card is not required</u>	MELFA Smart Plus Card/Card pack required (2F-DQ5xx)
	MELFA-3D Vision enhancements		
Intelligent function	Preventive maintenance function		
	2D Vision sensor enhancements		
	Calibration support function		
	Additive axis cooperative control		
	Robot mechanism temperature compensation function		

Table 1.2 Functional Overview

Smart Plus features		Description	A-Type	B-Type
AI function	Predictive maintenance function	Detects failing drive parts before abnormalities in robot behavior become apparent.	×	○
	Force sensor extension	Fast, iterative learning to generate optimal operating parameters.	×	○
	MELFA-3D Vision enhancements	Automatic parameter adjustment reduces start-up time.	×	○
Intelligent function	Preventive maintenance function	Tracks the robot's operating status to manage the condition of the robot.	○	×
	2D Vision sensor enhancements	Easily launch a variety of vision applications.	○	×
	Calibration support function	<ul style="list-style-type: none"> •Automatic calibration Automatically corrects vision sensor coordinates to improve positioning accuracy. •Work coordinate calibration Automatic correction of robot and work coordinates by vision sensor. Improves position accuracy by performing target. •Inter-robot relative calibration Automatic position correction between multiple robots by vision sensor. Improved positioning accuracy during cooperative operation. 	○	×
	Additive axis cooperative control	Machining and assembly with specified speed is realized by linking the robot with the running platform.	○	×
	Robot mechanism temperature compensation function	Improving positional accuracy by correcting thermal expansion of robot arm.	○	×

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