MITSUBISHI ELECTRIC

TECHNICAL BULLETIN

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Change in Specifications of Output Protection Functions for the Remote I/O Modules

■Date of Issue

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■Relevant Models

CC-Link IE TSN remote I/O modules, CC-Link IE Field Network remote I/O modules, CC-Link IE Field Basic remote I/O modules, and CC-Link remote I/O modules

Thank you for your continued support of Mitsubishi Electric programmable controllers.

This technical bulletin informs you that the specifications of output protection functions will be changed for the following output modules and I/O combined modules. The descriptions of manuals, catalogs, and website regarding protection functions will be revised to reflect this change.

These changes are related to the operation of the protection functions and do not affect normal use of the following models.

1 APPLICABLE MODELS

Applicable models are listed below.

Applicable model
Output module of CC-Link IE TSN remote I/O module
I/O combined module of CC-Link IE TSN remote I/O module
Output module of CC-Link IE Field Network remote I/O module
I/O combined module of CC-Link IE Field Network remote I/O module
Output module of CC-Link IE Field Basic remote I/O module
I/O combined module of CC-Link IE Field Basic remote I/O module
Output module of CC-Link remote I/O module
I/O combined module of CC-Link remote I/O module

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2 DETAILS ON THE CHANGE

The specifications of output protection functions are described as follows: "The overheat protection function is activated in increments of one point. The overload protection function is activated in increments of one point." However, in the environment of the general specifications, the overload protection function is activated first due to an overcurrent caused by a short-circuit in the wiring. Immediately afterwards, the overheat protection function is activated due to the heat caused by the overcurrent. There is little time difference between the activation of each function. If overheating continues, the generated heat can be transferred to the circuit board and activate another output overheat protection function. Thus, in actual operation, the overheat protection function is activated at multiple points.
In light of the above, the specifications will be changed as follows.

Point

Page 2 Performance Specifications (Description Example)The information in Page 2 Function Description (Description Example) is based on the information at the time of publication and is subject to change.

2.1 Performance Specifications (Description Example)

• Before change

Item		Specifications
Protection function	Overload protection	Limited current when detecting overcurrent (overload protection): 1.5 to 3.5A/point Activated in increments of 1 point
	Overheat protection	Activated in increments of 1 point

• After change

Item		Specifications
Protection function	Overload protection	Available
	Overheat protection	Available

2.2 Function Description (Description Example)

• Before change

Function	Description
Overheat protection	If the I/O module keeps outputting the overcurrent caused by an overload, heat is generated inside the I/O module. If excessive heat is detected within the I/O module, it turns off the output. The multiple points at which the overheat protection function operates depend on the I/O modules. Refer to the "Overheat protection function" column in the specifications table for each I/O module. If the heat descends, the module automatically returns to normal operation.

• After change

Function	Description
Overheat protection	If the I/O module keeps outputting the overcurrent caused by an overload, heat is generated inside the I/O module. If excessive heat is detected within the I/O module, it turns off the output. If overheating continues, the generated heat can be transferred to the circuit board and activate another overheat protection function. If the heat descends, the module automatically returns to normal operation.

REVISIONS

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A	July 2025	First edition

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