

ERROR OPERATION FB LIBRARY REFERENCE MANUAL

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Reference Manual Revision History

Reference Manual Number	Date	Description
FBM-M052-A	2011/03/22	First edition

1.M+CPU-Error_ResetAnnunciator (Annunciator reset)

FB Name

M+CPU-Error_ResetAnnunciator

Function Overview

Item	Description					
Function overview	Resets the annunciator (one point from the smallest number only).					
Symbol	<div><div><div>M+CPU-Error_ResetAnnuciator</div><div><div>Execution command</div><div>B : FB_EN</div></div><div><div>FB_ENO : B</div><div>FB_OK : B</div><div>o_Reset_FDevice : W</div></div><div><div>Execution status</div><div>Completed without error</div><div>Reset device</div></div></div></div>					
Applicable hardware and software	Hardware details:					
	<table><tr><td rowspan="2">Q series</td><td>High performance model</td></tr><tr><td>Universal model</td></tr><tr><td>L series</td><td>LCPU</td></tr></table>	Q series	High performance model	Universal model	L series	LCPU
	Q series		High performance model			
		Universal model				
L series	LCPU					
*Not applicable for QCPU (A mode)						
	Compatible software: GX Works 2 Version 1.31H or later					
Programming language	Ladder					
Number of steps (maximum value)	For high performance model CPU: 176* *The value is the number of steps in the label program, and is therefore stated as a reference value. For details, refer to the GX Works2 Version1 Operation Manual (Simple Project).					
Function description	Out of the annunciator devices (F0 to F2047), only one point from the smallest device number is reset by turning ON FB_EN (Execution command).					
Compiling method	Macro type					



Item	Description
Restrictions and precautions	1) The annunciator device is directly reset in the FB inside. 2) Use SET instruction to turn ON the annunciator that is to be reset by this FB. 3) The FB does not include error recovery processing. Program the error recovery processing separately in accordance with the required system operation. 4) The FB cannot be used in an interrupt program. 5) This FB uses index register Z9. Please do not use this index register in an interrupt program.
FB operation type	Pulsed execution (1 scan execution type)
Application example	Refer to Appendix - Application example.
Timing chart	•Operation of I/O signals <p>The timing chart illustrates the operation of the FB library. It shows four signals over time: FB_EN (Execution command), FB_ENO (Execution status), o_Reset_FDevice (Device that was reset), and FB_OK (Completed without error). The FB_EN signal is a pulsed signal. When it is ON, the FB_ENO signal transitions from OFF to ON. The o_Reset_FDevice signal is shown in three states: 'No processing', 'Refreshing', and 'No processing'. The FB_OK signal transitions from OFF to ON during the 'Refreshing' state.</p>
Relevant manual	MELSEC-Q/L Programming Manual (Common Instructions)

Labels

■ Input labels

Name	Variable name	Data type	Setting range	Description
Execution command	FB_EN	B	ON, OFF	ON: The FB is activated. OFF: The FB is not activated.

■ Output labels

Name	Label name	Data type	Initial value	Description
Execution status	FB_ENO	B	OFF	ON: Execution command is ON. OFF: Execution command is OFF.
Completed without error	FB_OK	B	OFF	When ON, it indicates that the processing is completed.
Reset device	o_Reset_FDevice	W	HFFFF	The number of annunciator device that was reset. (0 to 2047) When the default (HFFFF) is set after execution, it indicates that no annunciator was turned ON.

Processing description

- 1) The smallest from F0 to F2047 of annunciator devices (F) that is turned ON is searched.
- 2) If any device that is turned ON is detected, the device is reset by the "RST instruction".

Also, the device number is stored in the reset device simultaneously.

Version Upgrade History

Version	Date	Description
1.00A	2011/03/22	First edition

Note

This chapter includes information related to the M+CPU-Error_ResetAnnuciator function block.

It does not include information on restrictions of use such as combination with modules or programmable controller CPUs.

Before using any Mitsubishi products, please read all the relevant manuals.

Appendix 1 - Application Example

Error operation FB application example

System configuration

Power supply module	CPU module	QX40 (X10~X1F)	QY40 (Y20~Y2F)
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Device list

Data register

Device	FB function name	Application (ON details)
D0	Annunciator reset	Reset device

Relay

Device	FB function name	Application (ON details)
M0	Annunciator reset	Annunciator reset request
M1		Annunciator reset FB ready
M2		Annunciator reset complete

M+CPU-Error_ResetAnnuciator (Annunciator reset)

