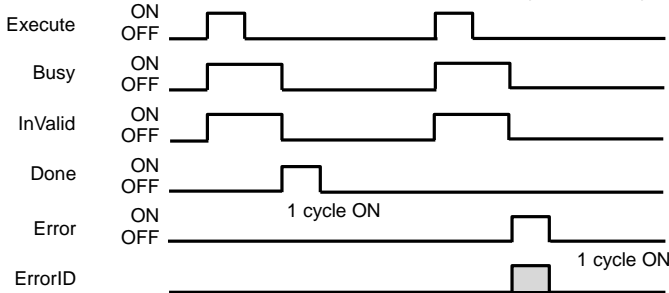
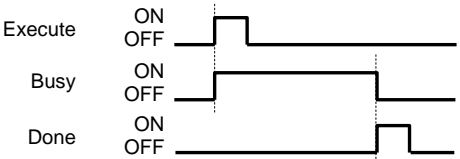
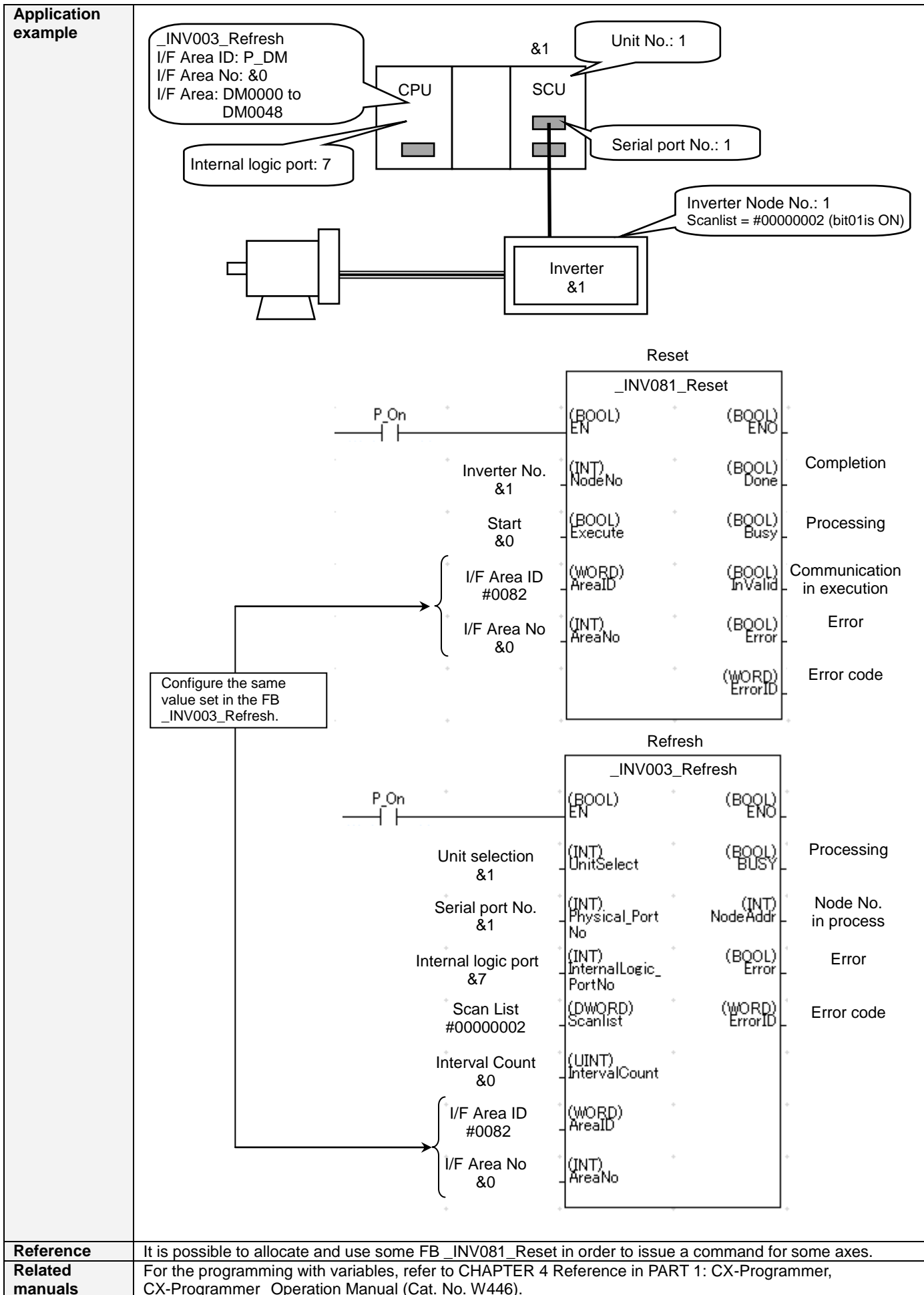


INV 081	Reset: _INV081_Reset
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Basic function	Resets an Inverter error.													
Symbol	<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"> <p>Always ON (P_On)</p> <p>Inverter No</p> <p>Start</p> <p>I/F Area ID</p> <p>I/F Area No.</p> </div> <div style="border: 1px solid black; padding: 5px; margin-right: 20px;"> <p style="text-align: center;">_INV081_Reset</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">(BOOL) EN</td> <td style="width: 50%; padding: 2px;">(BOOL) ENO</td> </tr> <tr> <td style="padding: 2px;">(INT) NodeNo</td> <td style="padding: 2px;">(BOOL) Done</td> </tr> <tr> <td style="padding: 2px;">(BOOL) Execute</td> <td style="padding: 2px;">(BOOL) Busy</td> </tr> <tr> <td style="padding: 2px;">(WORD) AreaID</td> <td style="padding: 2px;">(BOOL) InValid</td> </tr> <tr> <td style="padding: 2px;">(INT) AreaNo</td> <td style="padding: 2px;">(BOOL) Error</td> </tr> <tr> <td></td> <td style="padding: 2px;">(WORD) ErrorID</td> </tr> </table> </div> <div style="margin-left: 20px;"> </div> </div>		(BOOL) EN	(BOOL) ENO	(INT) NodeNo	(BOOL) Done	(BOOL) Execute	(BOOL) Busy	(WORD) AreaID	(BOOL) InValid	(INT) AreaNo	(BOOL) Error		(WORD) ErrorID
(BOOL) EN	(BOOL) ENO													
(INT) NodeNo	(BOOL) Done													
(BOOL) Execute	(BOOL) Busy													
(WORD) AreaID	(BOOL) InValid													
(INT) AreaNo	(BOOL) Error													
	(WORD) ErrorID													
File name	Lib\FBL\omronlib\Inverter \INVRT(MX2_RX)\Serial_INV081_Reset.cfx													
Applicable models	Inverters	3G3MX2-****-V1 3G3RX-****-V1												
	CPU Unit	CJ2H-CPU** Unit version 1.4 or later CJ2M-CPU** Unit version 2.0 or later CP1H Unit version 1.2 or later CP1L (except 10 points CPU) Unit version 1.0 or later												
	Serial Communications Unit	CJ1W-SCU41-V1 Unit version 1.3 or later CJ1W-SCU42 Unit version 2.0 or later CJ1W-SCU31-V1 Unit version 1.3 or later CJ1W-SCU32 Unit version 2.0 or later												
	RS-422A/485 Option Board	CP1W-CIF11 CP1W-CIF12												
	CX-Programmer	Version 9.0 or higher												
	Combination FB	_INV003_Refresh Version 1.0 or higher												
Language	Ladder programming language													
Conditions for usage	<ul style="list-style-type: none"> ■ Precondition for Usage This FB communicates with the inverter via a serial port which is controlled by the FB _INV003_Refresh. Start up the FB _INV003_Refresh to use this FB. Configure the same value set in the FB _INV003_Refresh for I/F Area ID (AreaID) and I/F Area No (AreaNo) in this FB. ■ Shared Resources I/F Area used for the FB _INV003_Refresh ■ Settings For the settings of communications port and inverter, refer to the FB _INV003_Refresh. 													
Function description	<p>Resets an error of the inverter specified in Inverter No. (NodeNo).</p> <p>When Start (Execute) is turned ON, this FB resets the inverter.</p> <ul style="list-style-type: none"> ■ Output Variables Behavior Completion (Done) is turned ON when the reset has been completed. Processing (Busy) is turned ON when the input variable, Start (Execute) is turned ON, and turned OFF when Completion (Done) or Error (Error) is turned ON. Error (Error) is turned ON when an error has occurred on this FB, and not turned ON due to errors in other FB or Instances. Completion (Done) and Error (Error) are turned OFF when the input variable, Start (Execute) is turned OFF. <div style="margin-top: 10px;"> </div>													

	<p>■ Output Variables Security Behavior for One Cycle When the output variable, Completion (Done) or Error (Error) is turned ON, if the input variable, Start (Execute) is OFF, these output variables are turned ON only for one cycle.</p>  <p>■ FB Behavior for the Inverter This FB resets the inverter independently of the inverter status, normal or abnormal. Set the inverter operation on the reset in the inverter parameter, Reset Selection (C102). Check if the inverter error has been reset, with the output variable, Alarm (ErrorStop) in the FB <u>_INV204_ReadStatus</u>.</p>
<p>FB definition</p>	<p>Several cycles execution type This FB takes several cycles to finish processing after starting up. It is impossible to use the same Instance in several areas at the same time because the status is held internally.</p>
<p>FB precautions</p>	<p>This FB takes several cycles to finish processing. It is possible to confirm whether the processing has been executed or not with the output variable, Processing (Busy).</p> <p>■ Timing Chart</p> 
<p>EN input condition</p>	<ul style="list-style-type: none"> Connect the EN input to the Always ON flag (P_ON). If the EN is connected to a contact, this FB output is held by turning OFF the contact.
<p>Restrictions Others</p>	<ul style="list-style-type: none"> Do not change relays in I/F Area during this FB operation because this FB uses them. Use this FB in combination with FB _INV003_Refresh. For how to use, refer to usage examples.



Reference It is possible to allocate and use some FB _INV081_Reset in order to issue a command for some axes.

Related manuals For the programming with variables, refer to CHAPTER 4 Reference in PART 1: CX-Programmer, CX-Programmer Operation Manual (Cat. No. W446).

■ Variable Table

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL	0 (OFF)	ON/OFF	1 (ON): Starts FB 0 (OFF): Does not start FB
Inverter No.	NodeNo	INT	&1	&1 to &31	Specifies the node No. of the inverter.
Start	Execute	BOOL	0 (OFF)	ON/OFF	Starts up the FB when this variable is turned ON.
I/F Area ID	AreaID	WORD	#0082	Refer to the right column	The work area is shared by configuring the same Area specified for the FB _INV003_Refresh that controls the applicable serial port.
I/F Area No	AreaNo	INT	&0	Refer to the right column	

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL	ON/OFF	1 (ON): FB operating normally 0 (OFF): FB not operating normally
Completion	Done	BOOL	ON/OFF	When this variable is 1 (ON), FB processing has been completed.
Processing	Busy	BOOL	ON/OFF	When this variable is 1 (ON), the FB is in process.
Communication in execution	InValid	BOOL	ON/OFF	When this variable is 1 (ON), the FB accesses the message communications area in I/F Area and the command communication with the inverter is in execution.
Error	Error	BOOL	ON/OFF	When this variable is 1 (ON), an error has occurred in the FB. For details on the error, refer to Error code (ErrorID).
Error code	ErrorID	WORD	0x0000 to 0xFFFF	Returns the code for the error which occurred in the FB. For details on the error, refer to "Error/Abort Condition List".

■ Error/Abort Condition List

Name	Error code	Probable error cause	Corrective measure
Normal completion	#0000	-	-
Response error	#0001 to #7FFF	A response error of the communications command occurred.	Identify an error cause from the FINS Commands End Codes List in Communications Command Reference Manual (W342).
Modbus exception response	#8001 to #9FFF	An exception response was returned via Modbus communication.	Identify an error cause from the Exception Response in Multi-function Compact Inverter MX2 Series Type V1 User's Manual (I585) and High-function General-purpose Inverter 3G3RX Series Type V1 User's Manual (I578). The exception response and code are respectively output to upper double digits (xx) and lower double digits (yy) of an error code "#xxyy".
Out of the input variable	#A000	The input variable in this FB is out of range.	Set an input variable value within the specified range.
Communications stop	#A010	The specified node does not communicate.	Set the node in the scan list of the FB _INV003_Refresh.
Communications error	#A011	A communications error occurred in the specified node.	Remove the error cause and then execute the command again.
External operation (Response area)	#A210	"Response area" in I/F Area was operated from outside the FB.	Do not operate I/F Area outside the FB. Moreover, do not use I/F Area with OUT instructions.

■ Revision History

Version	Date	Contents
1.00	2013.4.1	Original production

■ Note

This document explains the function of the function block.

It does not provide information of restrictions on the use of Units and Components or combination of them. For actual applications, make sure to read the operation manuals of the applicable products.