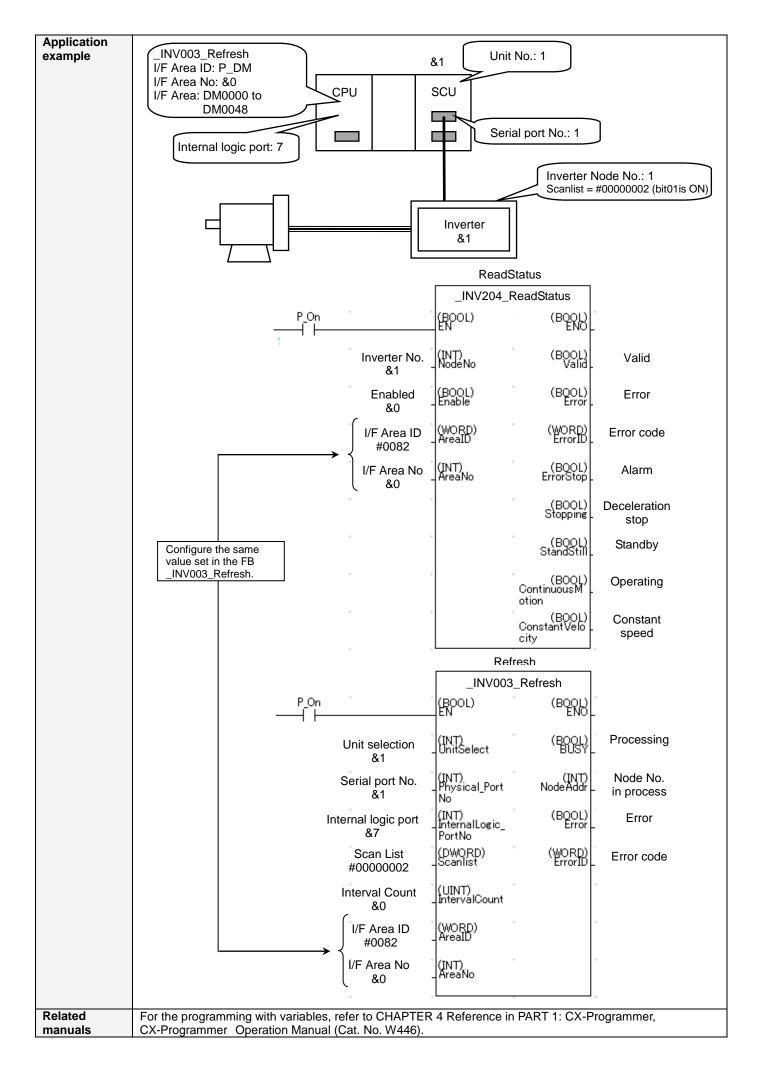
INV Status Read: _INV204_ReadStatus

Basic function	Reads the Inverter status.					
Symbol	_INV204_ReadStatus					
	Always ON (P_On)		(BOOL)	(BOOL)		
			ÈNÍ	` ENÓ	()	
	Inverter No		(INT) NodeNo	(BOOL) Valid	- Valid	
	Enabled -		(BOOL) Enable	(BOOL) Error	– Error	
	I/F Area ID -		(WORD) ArealD	(WORD) ErrorID	- Error code	
	I/F	Area No	(INT) AreaNo	(BOOL) ErrorStop	– Alarm	
				(BOOL) Stopping	 Deceleration stop 	
				(BOOL) StandStill (BOOL)	– Standby	
				ContinuousMotio (BOOL)	- Operating	
				ConstantVelocity	- Constant speed	
File name	Lib\FBL\omronlib\In			_RX)\Serial_INV20	4_ReadStatus.cxf	
Applicable models	Inverters		2-****-V1 -****-V1			
models	CPU Unit			nit version 1.4 or lat	er	
				nit version 2.0 or lat		
		CP1H	Unit vers	on 1.2 or later		
					version 1.0 or later	
	Serial			Unit version 1.3		
	Communications			Init version 2.0 or la		
	Unit CJ1W-SCU31-V1 Unit version 1.3 or later CJ1W-SCU32 Unit version 2.0 or later					
	RS-422A/485	CP1W-				
	Option Board	CP1W-				
	CX-Programmer Version 9.0 or hig			her		
	Combination FB _INV003_Refresh Version 1.0 or higher					
Language	Ladder programming language					
Conditions		Precondition for Usage This FB communicates with the inverter via a serial port which is controlled by the FB _INV003_Refresh.				
for usage					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 _I	NV003_R	efresh		
	Settings	foomm	nicationa r	ort and invertor ref	for to the ER INV/002 Refresh	
Function	For the settings of communications port and inverter, refer to the FB _INV003_Refresh. Reads the status of the inverter specified in Inverter No. (NodeNo).					
description	Reads the status of the inverter specified in inverter NO. (NodeiNo).					
	Reads the status continuously and reflects it in the output variable value while Enabled (Enable) is ON.					
	Output Variables I	Behavior				
	Valid (Valid) is turned ON when the valid value is reflected in the output variable.					
	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.					
FB definition				put variable, Enable	ed (Enable) is turned OFF.	
	Several cycles exec This FB takes sev			processing after s	tarting up	
					as at the same time because the status is held	
	internally.			<u> </u>		
FB	Connect the EN is					
precautions EN input					Id by turning OFF the contact.	
condition					on because this FB uses them.	
condition	Use this FB in combination with FB_INV003_Refresh. For how to use, refer to usage examples.					



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.
Enabled	Enable	BOOL	0 (OFF)	ON/OFF	1(ON): Reads the status 0(OFF): Does not read the status
I/F Area ID	ArealD	WORD	#0082	Refer to the right column	The work area is shared by configuring the same Area specified for the FB
I/F Area No	AreaNo	INT	&0	Refer to the right column	_INV003_Refresh that controls the applicable serial port.

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
Valid	Valid	BOOL	ON/OFF	When this variable is 1 (ON), the valid value is reflected.
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". An error code is output during error. The error code is held when the input variable, EN is OFF and cleared when the input variable, EN is turned ON.
Alarm	ErrorStop	BOOL	ON/OFF	When this variable is 1 (ON), an alarm has occurred.
Deceleration stop	Stopping	BOOL	ON/OFF	When this variable is 1 (ON), the status is during deceleration stop (Run command is OFF and During RUN is ON).
Standby	StandStill	BOOL	ON/OFF	When this variable is 1 (ON), the status is during waiting for a Run command (During RUN is OFF and Alarm is OFF).
Operating	Continuous Motion	BOOL	ON/OFF	When this variable is 1 (ON), the status is during startup (Run command is ON and During RUN is ON).
Constant speed	ConstantVel ocity	BOOL	ON/OFF	When this variable is 1 (ON), the status is during the constant speed running (Constant speed arrival is ON).

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 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.