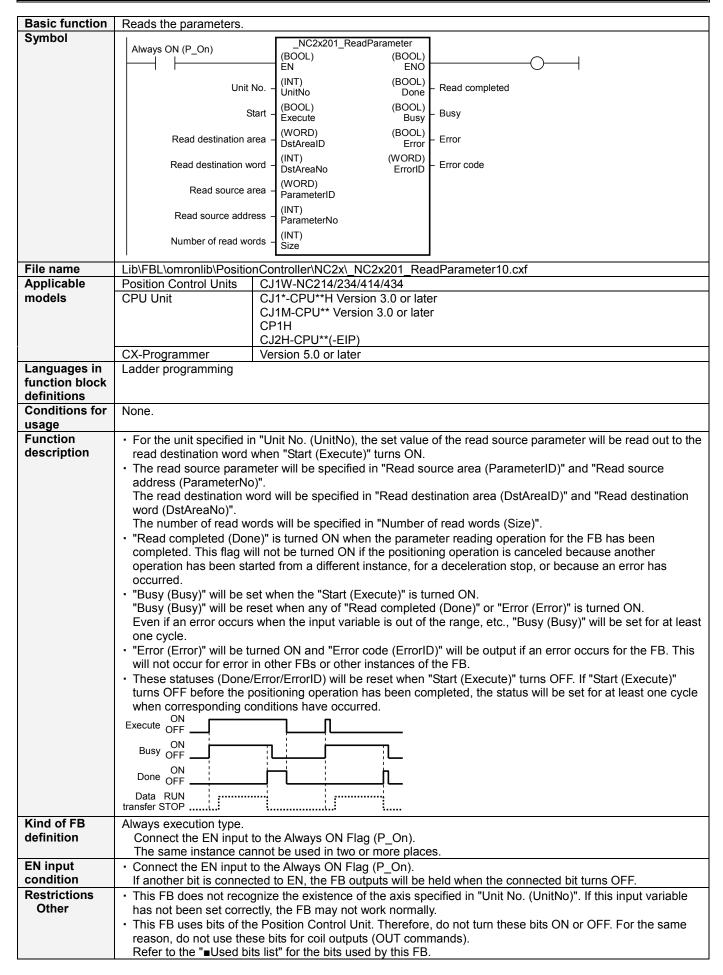
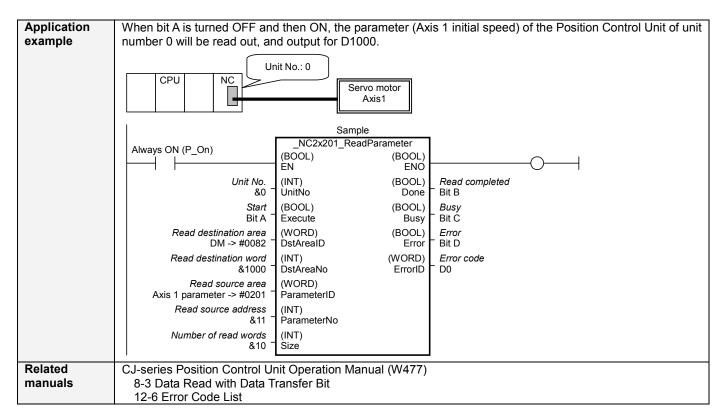
NC2x Read Parameter \_NC2x201\_ReadParameter





## ■Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description	
EN	EN	BOOL			1(ON): FB started	
					0(OFF): FB not started	
Unit No.	UnitNo	INT	&0	&0 to &94	Specify the unit number.	
Start	Execute	BOOL	0(OFF)			
Read destination area	DstAreaID	WORD	#0082	Refer to the right.	Specify the area where data read out from the Postion Control Unit will be written. P_CIO(#00B0): CIO P_WR(#00B1): WR P_HR(#00B2): HR P_DM(#0082): DM P_EM00(#0050) to P_EM18(#0068): EM bank 00 to 18	
Read destination word	DstAreaNo	INT	&0	&0 to &32767	Specify the beginning word where data read out from the Position Control Unit will be written.	
Read source area	ParameterID	WORD	#0100	Refer to the right.	Specify the area in the Position Control Unit where data will be read out. Refer to "Related manuals" for details. #0100: Common parameter #02xx: Axis parameter (xx: Axis number #01 to #04) #02F1: External encoder axis parameter #03xx: Memory operation parameter (xx: Task number #01 to #04) #04xx: Memory operation data (xx: Task number #01 to #04) #0500: Memory operation condition data	
Read source address	ParameterNo	INT	&0	Refer to the right.	Specify the beginning address in the Position Control Unit where data will be read out. Refer to "Related manuals" for details.	
Number of read words	Size	INT	&1	&1 to &25000	Specify the number of read words. Refer to "Related manuals" for details.	

**Output Variables** 

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1(ON): FB operating normally 0(OFF): FB not started / FB ended with error
Read completed	Done	BOOL		Turns ON when the parameter reading operation has been completed.
Busy	Busy	BOOL		Turns ON when FB is in the process.
Error	Error	BOOL		Turns ON when an error has occurred in the FB. Refer to "Error code (ErrorID)" for details.
Error code	ErrorID	WORD		Returns the error code when an error occurred in the FB. Refer to "Error code list" for details.

## ■Error code list

Error name	Error code	Probable cause	Clearing method
Input variable out of range	#0001	The value of input variable of this FB is out of valid range.	Set the value of input variable within the specified range.
Unit error	#1001	An error in individual unit has occurred.	Check "Unit common error code". Identify the error cause from the Operation Manual of the Position Control Unit.
Unit initializing	#2001	The Position Control Unit is in process of initialization.	Execute the FB after the Position Control Unit initialization process has been completed.
Command disabled	#2300	FB commands have not been accepted.	Execute the FB after putting the unit in status that can accept commands.
Read data	#300D	"Read data" of the PCU Control Output Memory area has been operated by the outside of the FB.	Do not operate each bit which the active FB is operating, by the external unit of the FB.  Do not use it on OUT command.

## **■**Used bits list

Memory area	Name	Data type	Address	Note
PCU Control Output	Read data	BOOL	n+00.13	
Memory area	Number of data transfer words	INT	n+01	
	CPU Data Transfer area type	WORD	n+02	
	CPU data transfer beginning word	INT	n+03	
	PCU Data Transfer area type	WORD	n+04	
	PCU data transfer beginning word	INT	n+05	

**■Version History** 

Version	Date	Contents
1.00	2009.06.	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.