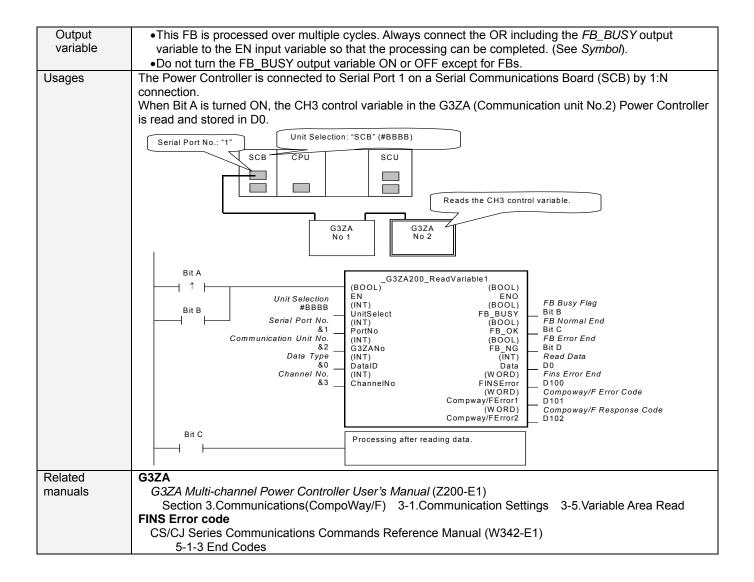
Read Data _G3ZA200_ReadVariable1

Basic Function	Reads data for the spec	ified channe	I		
Symbol	Start Trigger	oa onanne	G3ZA200 ReadVariable1	7	
			(BOOL) (BOOL)		
			EN ENO (BOOL)		
	Busy Flag L	Init Selection	UnitSelect FB_BUSY	FB Busy Flag	
	Se	erial Port No.	(INT) (BOOL) PortNo FB_OK (INT) (BOOL)	FB Normal End	
	Communica	ation Unit No	G3ZANo FB_NG (INT) (INT)	FB Error End	
		Data Type	DataID Data (INT) (WORD)	Read Data	
		Channel No	ChannelNo FINSError (WORD)	Fins Error Code	
			Compway/FError1 (WORD)	Compoway/F Error Code	
			Compway/FError2		
File name	Lib\FBL\omronlib\Powe	rController\G	3ZA\Serial_G3ZA200_ReadVari	able110.cxf	
Applicable	Power Controller	G3ZA			
models	CPU Unit		**H Unit version 3.0 or higher		
		CJ1*-CPU*	*H Unit version 3.0 or higher		
			** Unit version 3.0 or higher		
		CP1H	ant 10 nainte CDLI)		
	Serial		ept 10 points CPU)	/-SCU41-V1 Unit Version 1.2 or higher	
	Communications		321-V1 and CS1W-SCB41-V1 Ur		
	Units/Boards				
11	CX-Programmer	Version 5.0	or higher		
Usage condition	External Connection	aaibla			
Condition	•1:N connection is po Communications Setting				
			serial port (Serial Gateway) must	be identical to that of the Power	
	Controller.		remai peri (cemai catema), maci		
	•The communications	s setting of th	ne specified serial port can be ma	tched to the default Power Controller	
	setting (the factory shipment value) by using the Set Communication Port (_G3ZA600_SetComm) FB,				
	and also to the settings other than the default setting by using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) FB. CPU Unit Setting PLC Setup: Shared Settings for Communications Instructions in FBs				
			ponse Timeout (default: 2 s): 5 s		
	The number of retries (default: 0). Shared Resource				
	•A communication po			101	
Descriptions	When a Start Trigger is turned ON, the data specified by Data Type and Channel No. is read. When an error occurs, refer to 1) FINS Error Code, 2) Compoway/F Error Code and 3) Compoway/F Response Code in this				
			e error code output and response		
Precautions					
	 This FB is processed over multiple cycles. The FB_BUSY output variable can be used to check whether the FB is in process. 				
	•FB_OK or FB_NG will be turned ON only for one cycle upon a completion of processing. Use the to detect a completion of FB processing.				
	Time Chart Start Trigger	ON			
	35	OFF			
	FB Busy Flag (FB_BU				
		OFF .			
	FB Normal End (FB_C	K) or ON			
	FB Error End (FB_NG)				
	Read Data				
	Reau Data				
			↑Stores the Read Data	a in the specified area.	
EN input	Connect FN to the OP I	etween the	Start Trigger's DIFIT (differentiate	e up) and the FB_BUSY output from the	
condition	FB. See the diagram ab	ove.	,	b dp, and the 1 B_Boot output from the	
Restrictions	Always use DIFU (differ	entiate up) (↑) for EN inputs.		
Input					
variable					



Variable Tables

Input Variables

Name	Variable Name	Data Type	Default	Scope	Descriptions
EN	EN	BOOL			1(ON): A FB is started.
					0(OFF): A FB is not started.
Unit selection	UnitSelect	INT	&0	At right.	Specify the Unit and the serial port.
Serial Port No.	PortNo	INT	&1	&1 to &2	Only serial port 2 of CP1H/CP1L M-type
					CPU unit is possible to use this FB.
					■ Connected to CPU Unit Unit selection #FFFF
					Serial port No. Not access ed.
					(CP1H/CP1L-M: Serial Port2
					CP1L-L14/20: Serial Port1) ■ Connected to Serial Communication Board(SCB)
					Unit selection #BBBB
					Serial port No. &1: Serial Port 1
					&2: Serial Port 2 Connected to Serial Communication Unit(SCU)
					Unit selection SCU Unit No. (&0 to &15)
					Serial port No. &1: Serial Port 1
					&2: Serial Port 2
Communication	G3ZANo	INT	&0	&0 to &31	Specifies the communication unit No. of
Unit No.					G3ZA.
Data Type	DataID	INT	&0	&0 to &10	Specifies the data type to be read.
					&0: Control variable
					&1: Status
					&2: Manipulated variable
					&3: Slope
					&4: Offset
					&5: Source channel &6: Heater burnout detection value
					&7: Heater ON current
					&8: Heater OFF current
					&9: SSR short-circuit detection value
					&10: Heater overcurrent detection value
Channel No.	ChannelNo	INT	&1	&1 to &8	Specifies the channel No.

Output Variable

Output variable	The state of		1 -	15 10
Name	Variable Name	Data Type	Scope	Descriptions
ENO	ENO	BOOL		1(ON): A FB has operated normally.
(Omissionable)				0(OFF): A FB has not started. / A FB ended in error.
FB Busy Flag	FB_BUSY	BOOL		Turned off automatically after a completion of
				processing.
FB Normal End	FB_OK	BOOL		Turned ON only for 1 cycle when processing ends
				normally.
FB Error End	FB_NG	BOOL		Turned ON only for 1 cycle when processing ends in
				error.
Read Data	Data	INT		Outputs the read data.
FINS	FINS_ErrorCode	WORD		Outputs the Fins Error Code when a FB_NG flag is
Error Code				ON. It is #0000 when ended normally. For details of the
				codes, refer to the CS/CJ Series Communications
				Commands Reference Manual (W342-E1).
Compoway/F	CompowayF_Erro	WORD		Outputs the Compoway/F Error Code when a FB_NG
Error Code	rCode1			flag is ON. Mainly the error statuses on physical
				communication lines are output as the Compoway/F
				Error Code. It is #0000 when ended normally. For
				details of the codes, refer to the descriptions below.
Compoway/F	CompowayF_Erro	WORD		Outputs the Compoway/F Response Code when a
Response Code	rCode2			FB_NG flag is ON. Mainly the operation error status of
				the Power Controller is output as the Compoway/F
				Response Code. It is #0000 when ended normally. For
				details of the codes, refer to the descriptions below.

Compoway/F Error Code

Code	Contents	Descriptions
#0000	Normal End	The command processing ended normally.
#000F	FINS Command Error	Specifying a FINS command cannot be executed.
#0010	Parity Error	The sum of bits whose received data is "1" does not accord with the setting of a
		"Communication Parity".
#0011	Flaming Error	The stop bit is "0".
#0012	Overrun Error	The next data was received when it was full with the already received data.
#0013	BCC Error	The received BCC and the calculated BCC are different.
#0018	Frame Length Error	The length of the received flame exceeds the specified number of bytes.

Compoway/F Response Code

Code	Contents	Descriptions
#0000	Normal End	The processing ended normally.
#2203	Operation Error	An error occurred in the G3ZA nonvolatile memory.

Version History

Version	Date	Contents
1.00	2006.08	Original Production

Attention

This document describes the functions of Function Blocks.

The usage restrictions for units or components and its combinations are not described here. We would like you to make sure of reading the *User's Manual* before actually using the products.