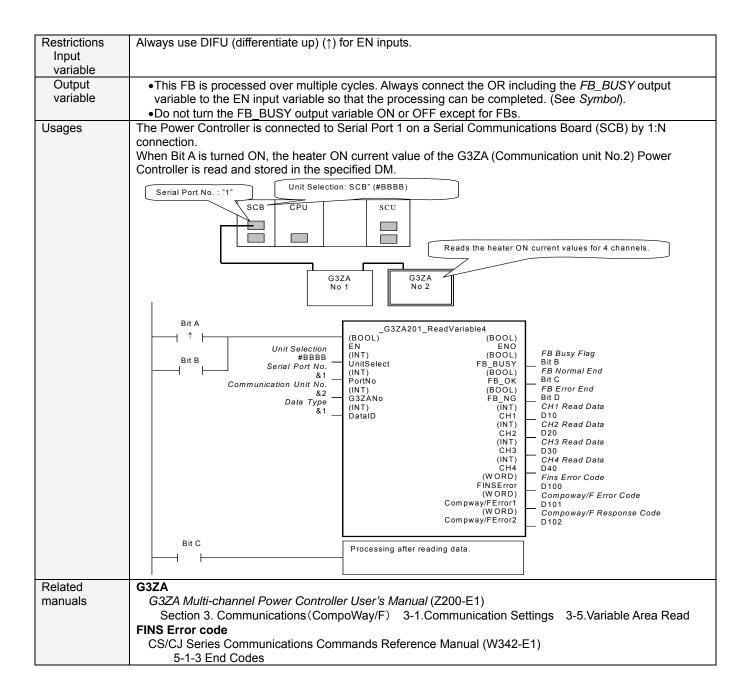
G3ZA 201	Read 4CH Data	_G3ZA201	_ReadVariable4
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Basic Function	Reads data for the specified	4 chan	nels.		
Symbol	Start Trigger			A201_ReadVariable4	1
			(BOOL)	(BOOL)	
			ÈN	ENÓ	
	Busy Flag Unit S	election	(INT) UnitSelect	(BOOL) FB BUSY	FB Busy Flag
	Serial F	Port No.	(INT) PortNo	(BOOL) FB OK	FB Normal End
	Communication I	Jnit No.	(INT) G3ZANo	(BOOL) FB_NG	FB Error End
	Dai	ta Type	(INT) DataID	(ÎNT) CH1	CH1 Read Data
				(INT) CH2	CH2 Read Data
				(INT) CH3	CH3 Read Data
				(INT)	
				CH4 (WORD)	CH4 Read Data
				FINSError (WORD)	Fins Error Code
				Compway/FError1 (WORD)	Compoway/F Error Code
				Compway/FError2	Compoway/F Response Code
File name	Lib\FBL\omronlib\PowerCor		3ZA\Serial	G3ZA201_ReadVaria	ble410.cxf
Applicable		ZA			
models				rersion 3.0 or higher	
				ersion 3.0 or higher	
		1M-CPL 1H	Unit ve	ersion 3.0 or higher	
			ept 10 point		
					SCU41-V1 Unit Version 1.2 or higher
				I CS1W-SCB41-V1 Uni	
	Units/Boards				
		rsion 5.0	) or higher		
Usage	External Connection				
condition	<ul> <li>1:N connection is possib</li> </ul>	le.			
	Communications Setting				
		ng of a s	serial port (	Serial Gateway) must b	be identical to that of the Power
	Controller.				
					ched to the default Power Controller
	setting (the factory shipment value) by using the <i>Set Communication Port</i> (_G3ZA600_SetComm) FB, and also to the settings other than the default setting by using the <i>Set Serial Gateway Mode</i>				
	(_SCx604_SetPortGATE			in setting by using the a	Set Serial Gateway Mode
	CPU Unit Setting	WAT) F	Б.		
	PLC Setup: Shared Settir	nas for C	Communicat	tions Instructions in FB:	8
	Communications Instruct				
	•The number of retries (d				
	Shared Resource		,-		
	<ul> <li>A communication port (a</li> </ul>	n interna	al logical po	ort)	
Descriptions					y Data Type are read. When an error
					) Compoway/F Response Code in this
					code output become #0000.
Precautions	•	er multip	ole cycles. T	The FB_BUSY output va	ariable can be used to check whether
	the FB is in process.	turned	ON only for	r ana avala unan a aam	plation of processing. Llos these flags
	to detect a completion of			r one cycle upon a con	pletion of processing. Use these flags
	Time Chart	т в рю	cessing.		
	Start Trigger	ON			
		OFF			
	FB Busy Flag (FB_BUSY)	ON			
		OFF .			
	FB Normal End (FB_OK) or	ON			
	FB Error End (FB_NG)	OFF			
	Doct Data				
	Read Data				
				↑Stores the Read Data	in the specified area.
			i		
EN input		een the	Start Trigge	er 's DIFU (differentiate	up) and the FB_BUSY output from the
condition	FB. See the diagram above				



#### 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	<ul> <li>Only serial port 2 of CP1H/CP1L M-type CPU unit is possible to use this FB.</li> <li>Connected to CPU Unit Unit selection #FFFF</li> <li>Serial port No.</li> <li>Not accessed. (CP1H/CP1L-M: Serial Port2 CP1L-L14/20: Serial Port1)</li> <li>Connected to Serial Communication Board(SCB) Unit selection #BBBB</li> <li>Serial port No.</li> <li>&amp;1: Serial Port 1 &amp;2: Serial Port 2</li> <li>Connected to Serial Communication Unit(SCU) Unit selection SCU Unit No. (&amp;0 to &amp;15) Serial port No.</li> <li>&amp;1: Serial Port 1 &amp;2: Serial Port 2</li> </ul>
Communication Unit No.	G3ZANo	INT	&0	&0 to &31	Specifies the communication unit No. of G3ZA.
Data Type	DatalD	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

Output Variable				
Name	Variable Name	Data Type	Scope	Descriptions
ENO (Omissionable)	ENO	BOOL		1(ON): A FB has operated normally. 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.
CH1 Read Data	CH1	INT		Outputs the CH1 read data.
CH4 Read Data	CH4	INT		Outputs the CH4 read data.
FINS Error Code	FINS_ErrorCode	WORD		Outputs the Fins Error Code when a FB_NG flag is 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 Error Code	CompowayF_Erro rCode1	WORD		Outputs the Compoway/F Error Code when a FB_NG 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 Response Code	CompowayF_Erro rCode2	WORD		Outputs the Compoway/F Response Code when a 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	0	Contents	Descriptions
#0000	Ν	Normal End	The processing ended normally.
#2203	0	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.