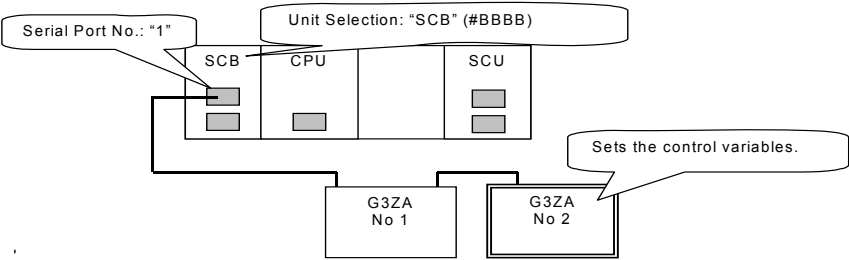
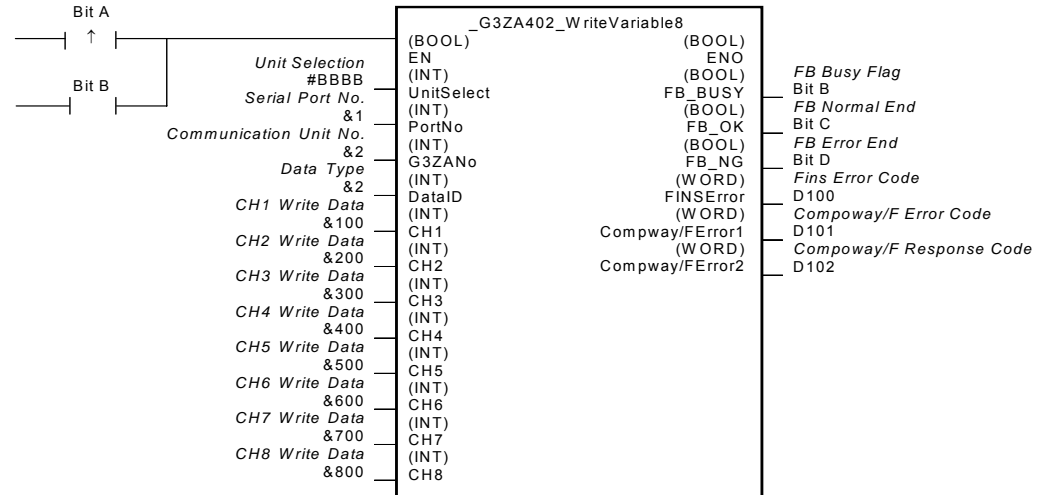


G3ZA 402	Write 8CH Data _G3ZA402_WriteVariable8
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Basic Function	Writes data for the specified 8 channels.																																											
Symbol		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;"></td> <td style="width: 30%; text-align: center;">_G3ZA402_WriteVariable8</td> <td style="width: 30%;"></td> </tr> <tr> <td>(BOOL)</td> <td>EN</td> <td>(BOOL)</td> </tr> <tr> <td>(INT)</td> <td>UnitSelect</td> <td>(BOOL)</td> </tr> <tr> <td>(INT)</td> <td>PortNo</td> <td>(BOOL)</td> </tr> <tr> <td>(INT)</td> <td>G3ZANo</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>DataID</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH1</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH2</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH3</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH4</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH5</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH6</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH7</td> <td>(WORD)</td> </tr> <tr> <td>(INT)</td> <td>CH8</td> <td>(WORD)</td> </tr> </table>		_G3ZA402_WriteVariable8		(BOOL)	EN	(BOOL)	(INT)	UnitSelect	(BOOL)	(INT)	PortNo	(BOOL)	(INT)	G3ZANo	(WORD)	(INT)	DataID	(WORD)	(INT)	CH1	(WORD)	(INT)	CH2	(WORD)	(INT)	CH3	(WORD)	(INT)	CH4	(WORD)	(INT)	CH5	(WORD)	(INT)	CH6	(WORD)	(INT)	CH7	(WORD)	(INT)	CH8	(WORD)
	_G3ZA402_WriteVariable8																																											
(BOOL)	EN	(BOOL)																																										
(INT)	UnitSelect	(BOOL)																																										
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(INT)	CH8	(WORD)																																										
File name	Lib\FBL\omronlib\PowerController\G3ZA\Serial_G3ZA402_WriteVariable810.cxf																																											
Applicable models	Power Controller	G3ZA																																										
	CPU Unit	CS1*-CPU**H Unit version 3.0 or higher CJ1*-CPU**H Unit version 3.0 or higher CJ1M-CPU** Unit version 3.0 or higher CP1H CP1L (except 10 points CPU)																																										
	Serial Communications Units/Boards	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher																																										
	CX-Programmer	Version 5.0 or higher																																										
Usage condition	External Connection •1:N connection is possible. Communications Setting The communications setting of a serial port (Serial Gateway) must be identical to that of the Power Controller. •The communications setting of the specified serial port can be matched 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_SetPortGATEWAY) FB. CPU Unit Setting PLC Setup: <i>Shared Settings for Communications Instructions in FBs</i> •Communications Instruction Response Timeout (default: 2 s): 5 s or more is recommended. •The number of retries (default: 0). Shared Resource •A communication port (an internal logical port)																																											
Descriptions	When a Start Trigger is turned ON, the data for 8 channels are written into the data area specified by Data Type. When an error occurs, refer to 1) <i>FINS Error Code</i> , 2) <i>Compoway/F Error Code</i> and 3) <i>Compoway/F Response Code</i> in this order. When ended normally, both the error code output and response code output become #0000.																																											
Precautions	•This FB is processed over multiple cycles. The <i>FB_BUSY</i> output variable can be used to check whether the FB is in process. • <i>FB_OK</i> or <i>FB_NG</i> will be turned ON only for one cycle upon a completion of processing. Use these flags to detect a completion of FB processing. Time Chart 																																											
EN input condition	Connect EN to the OR between the <i>Start Trigger</i> 's DIFU (differentiate up) and the <i>FB_BUSY</i> output from the FB. See the diagram above.																																											

<p>Restrictions Input variable</p>	<p>Always use DIFU (differentiate up) (↑) for EN inputs.</p>
<p>Output variable</p>	<ul style="list-style-type: none"> •This FB is processed over multiple cycles. Always connect the OR including the <i>FB_BUSY</i> output variable to the EN input variable so that the processing can be completed. (See <i>Symbol</i>). •Do not turn the <i>FB_BUSY</i> output variable ON or OFF except for FBs.
<p>Usages</p>	<p>The Power Controller is connected to Serial Port 1 on a Serial Communications Board (SCB) by 1:N connection.</p> <p>When Bit A is turned ON, the control variables of the G3ZA (Communication unit No.2) Power Controller are set to 0%, 20%, ... 80% respectively.</p>   <p>Processing after writing data.</p>
<p>Related manuals</p>	<p>G3ZA <i>G3ZA Multi-channel Power Controller User's Manual (Z200-E1)</i> Section 3.Communications (CompoWay/F) 3-1.Communication Settings 3-4.Variable Area Write</p> <p>FINS Error code <i>CS/CJ Series Communications Commands Reference Manual (W342-E1)</i> 5-1-3 End Codes</p>

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. Only serial port 2 of CP1H/CP1L M-type CPU unit is possible to use this FB. <ul style="list-style-type: none"> ■ Connected to CPU Unit <ul style="list-style-type: none"> Unit selection #FFFF Serial port No. Not accessed. (CP1H/CP1L-M: Serial Port2 CP1L-L14/20: Serial Port1) ■ Connected to Serial Communication Board(SCB) <ul style="list-style-type: none"> Unit selection #BBBB Serial port No. &1: Serial Port 1 &2: Serial Port 2 ■ Connected to Serial Communication Unit(SCU) <ul style="list-style-type: none"> Unit selection SCU Unit No. (&0 to &15) Serial port No. &1: Serial Port 1 &2: Serial Port 2
Serial Port No.	PortNo	INT	&1	&1 to &2	
Communication Unit No.	G3ZANo	INT	&0	&0 to &31	Specifies the communication unit No. of G3ZA.
Data Type	DataID	INT	&2	&2 to &5	Specifies the data type to be written. &2: Manipulated variable &3: Slope &4: Offset &5: Source channel
CH1 Write Data	CH1	INT			Specifies the CH1 write data. The available scope or unit of data varies depending on the type.
CH8 Write Data	CH8	INT			Specifies the CH8 write data. The available scope or unit of data varies depending on the type.

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.
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 <i>CS/CJ Series Communications Commands Reference Manual (W342-E1)</i> .
Compoway/F Error Code	CompowayF_ErrorCode1	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_ErrorCode2	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 frame 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.