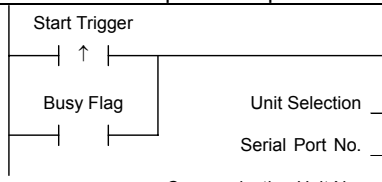
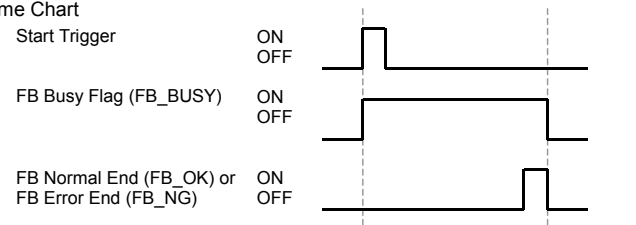
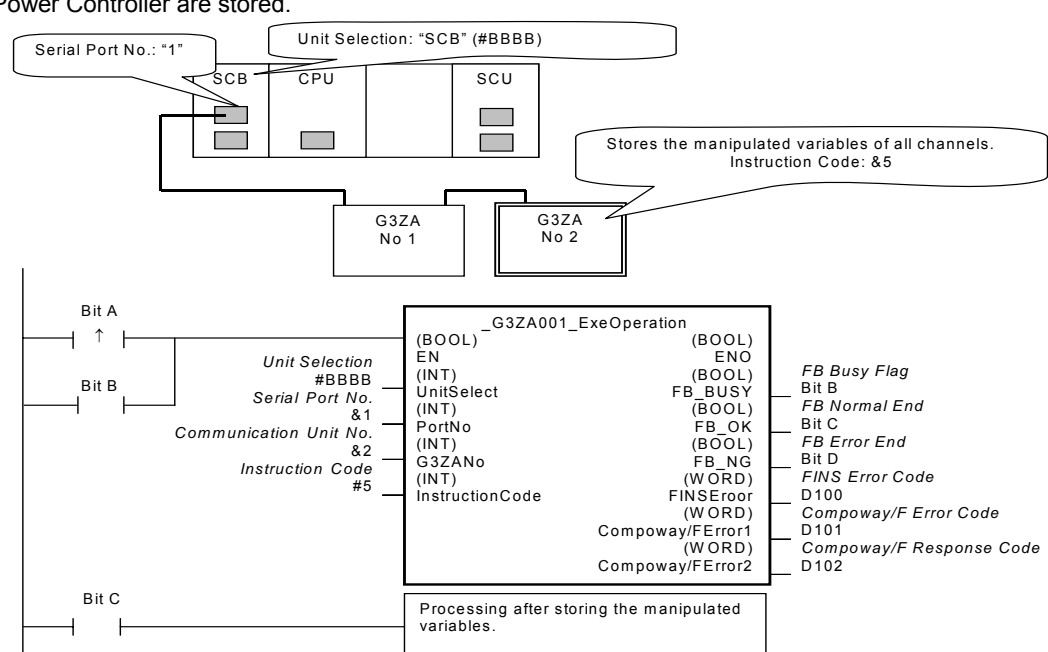


G3ZA 001	Execute Operation _G3ZA001_ExecOperation
-------------	-------------------------------------------------

Basic Function	Executes the specified operation.																									
Symbol		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:33%; padding: 2px;">_G3ZA001_ExecOperation</td> <td style="width:33%;"></td> <td style="width:33%;"></td> </tr> <tr> <td style="padding: 2px;">(BOOL) EN</td> <td style="padding: 2px;">(BOOL) ENO</td> <td style="padding: 2px;"></td> </tr> <tr> <td style="padding: 2px;">(INT) UnitSelect</td> <td style="padding: 2px;">(BOOL) FB_BUSY</td> <td style="padding: 2px;">FB Busy Flag</td> </tr> <tr> <td style="padding: 2px;">(INT) PortNo</td> <td style="padding: 2px;">(BOOL) FB_OK</td> <td style="padding: 2px;">FB Normal End</td> </tr> <tr> <td style="padding: 2px;">(INT) G3ZANo</td> <td style="padding: 2px;">(BOOL) FB_NG</td> <td style="padding: 2px;">FB Error End</td> </tr> <tr> <td style="padding: 2px;">(INT) InstructionCode</td> <td style="padding: 2px;">(WORD) FINS Error</td> <td style="padding: 2px;">Fins Error Code</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">(WORD) Compway/F Error1</td> <td style="padding: 2px;">Compway/F Error Code</td> </tr> <tr> <td style="padding: 2px;"></td> <td style="padding: 2px;">(WORD) Compway/F Error2</td> <td style="padding: 2px;">Compway/F Response Code</td> </tr> </table>	_G3ZA001_ExecOperation			(BOOL) EN	(BOOL) ENO		(INT) UnitSelect	(BOOL) FB_BUSY	FB Busy Flag	(INT) PortNo	(BOOL) FB_OK	FB Normal End	(INT) G3ZANo	(BOOL) FB_NG	FB Error End	(INT) InstructionCode	(WORD) FINS Error	Fins Error Code		(WORD) Compway/F Error1	Compway/F Error Code		(WORD) Compway/F Error2	Compway/F Response Code
_G3ZA001_ExecOperation																										
(BOOL) EN	(BOOL) ENO																									
(INT) UnitSelect	(BOOL) FB_BUSY	FB Busy Flag																								
(INT) PortNo	(BOOL) FB_OK	FB Normal End																								
(INT) G3ZANo	(BOOL) FB_NG	FB Error End																								
(INT) InstructionCode	(WORD) FINS Error	Fins Error Code																								
	(WORD) Compway/F Error1	Compway/F Error Code																								
	(WORD) Compway/F Error2	Compway/F Response Code																								
File name	Lib\FBL\omronlib\PowerController\G3ZA\Serial_G3ZA001_ExecOperation10.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 conditions	<p>External Connection</p> <ul style="list-style-type: none"> •1:N connection is possible. <p>Communications Setting</p> <p>The communications setting of a serial port (Serial Gateway) must be identical to that of the Power Controller.</p> <ul style="list-style-type: none"> •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. <p>CPU Unit Setting</p> <p>PLC Setup: <i>Shared Settings for Communications Instructions in FBs</i></p> <ul style="list-style-type: none"> •Communications Instruction Response Timeout (default: 2 s): 5 s or more is recommended. •The number of retries (default: 0). <p>Shared Resource</p> <ul style="list-style-type: none"> •A communication port (an internal logical port) 																									
Descriptions	When a Start Trigger is turned ON, the operation command specified by Instruction Code is executed. When an error occurs, refer to 1) <i>FINS Error Code</i> , 2) <i>Compway/F Error Code</i> and 3) <i>Compway/F Response Code</i> in this order. When ended normally, both the error code output and response code output become #0000.																									
Precautions	<ul style="list-style-type: none"> •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. <p>Time Chart</p>  <ul style="list-style-type: none"> •When a software reset is specified (Instruction Code 06), it executes only command sending, and turns on a <i>FB_OK</i> flag regardless of whether units are connected or not. 																									
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.																									
Restrictions	Always use DIFU (differentiate up) (↑) for EN inputs.																									
Output variable	<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. When Bit A is turned ON, the manipulated variables of all channels in the G3ZA (Communication unit No.2) Power Controller are stored.</p>  <p>The diagram illustrates the hardware configuration and the execution of the <code>_G3ZA001_ExeOperation</code> instruction. The hardware part shows a Serial Communications Board (SCB) connected to a CPU and SCU, which are then connected to G3ZA No 1 and G3ZA No 2 units. A callout indicates that the SCB is connected to Serial Port No. 1. Another callout states that the manipulated variables of all channels are stored when Bit A is turned ON, with an instruction code of &5. The ladder logic diagram shows three input bits: Bit A (normally open), Bit B (normally closed), and Bit C (normally open). The instruction <code>_G3ZA001_ExeOperation</code> has several parameters: <code>EN</code> (BOOL), <code>UnitSelect</code> (INT), <code>PortNo</code> (INT), <code>G3ZANo</code> (INT), and <code>InstructionCode</code> (INT). The outputs include <code>FB_BUSY</code> (BOOL), <code>FB_OK</code> (BOOL), <code>FB_NG</code> (BOOL), <code>FINSEror</code> (WORD), <code>Compoway/FError1</code> (WORD), and <code>Compoway/FError2</code> (WORD). A box labeled 'Processing after storing the manipulated variables.' is connected to the Bit C input.</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 3-6.Operation Command</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	Range	Descriptions
EN	EN	BOOL			1(ON): A FB is started. 0(OFF): A FB is not started.
Unit selection Serial Port No.	UnitSelect PortNo	INT INT	&0 &1	At right. &1 to &2	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
Communication Unit No.	G3ZANo	INT	&0	&0 to &31	Specifies the communication unit No. of G3ZA.
Instruction Code	InstructionCode	INT	&5	&5 to &6 &11	Refer to <i>Operation Command</i> to be described later.

Operation Command

Instruction Code	Contents
&5	Stores the manipulated variables of all channels.
&6	Executes a software reset to a unit.
&11	Initializes the settings (Resets the entire setting values to the default values).

Output Variables

Name	Variable Name	Data type	Range	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.
#0016	Sub-address Error	The sub-addresses are out of the range.
#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.