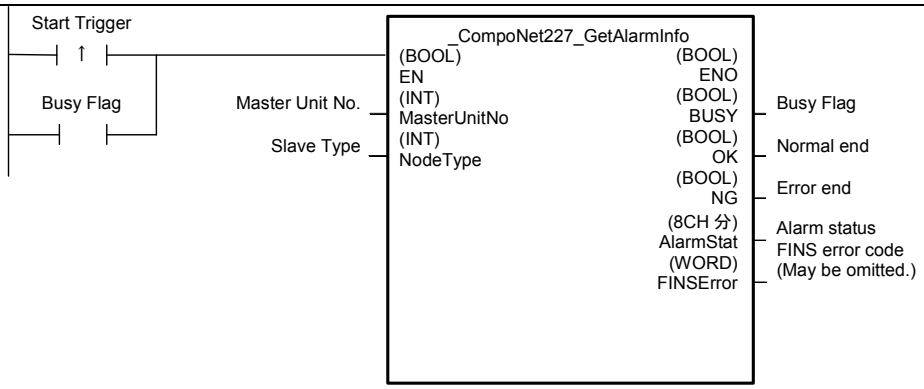
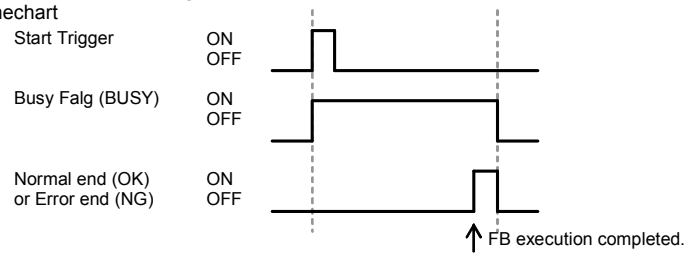
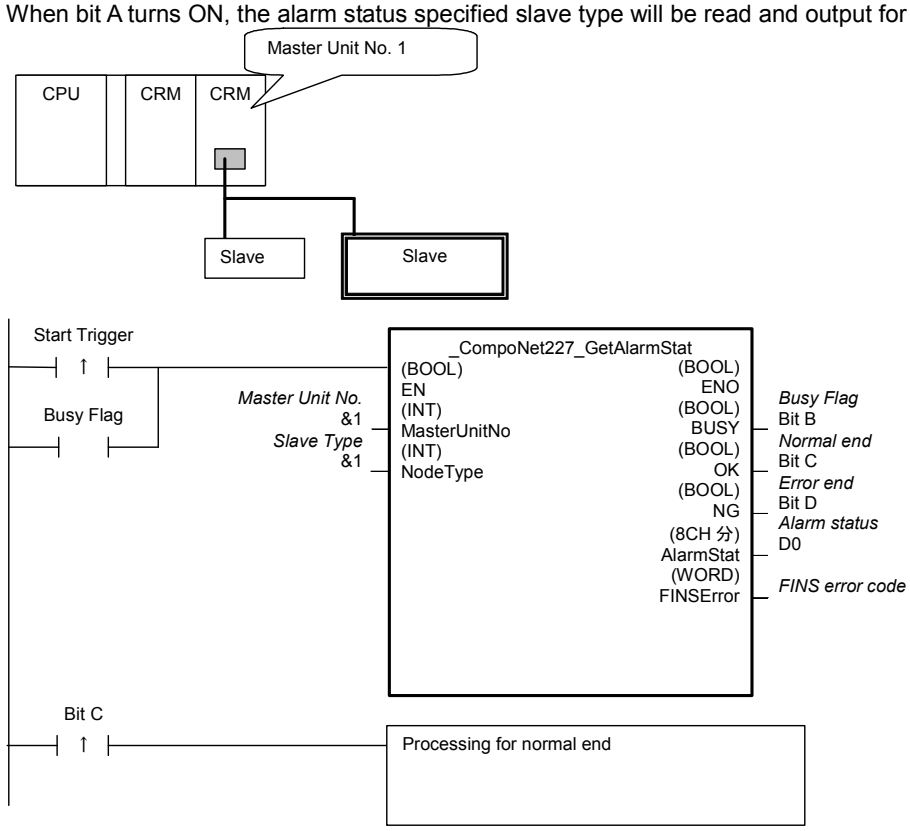
CompoNet -227	Read Slave Alarm Status: _CompoNet227_GetAlarmStat

Basic function	Reads the alarm status from slaves connected to CompoNet.	
Symbol		
File name	Lib\FBL\omronlib\RemoteIO\CompoNet_CompoNet227_GetAlramStat.cxf	
Applicable models	Applicable Master Units	CS1W-CRM21 and CJ1W-CRM21
	Applicable Slave Units	CRT1-ID16, CRT1-OD16, CRT1B-ID02S, CRT1B-OD02S CRT1B-ID02SP, CRT1B-OD02SP, CRT1B-ID04SP, CRT1B-MD04SLP and CRS1-RPT01
	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
	CX-Programmer	Version 5.0 or higher.
Conditions for usage	CPU Unit Settings PLC Setup: Shared Settings for Communications Instructions in FBs ・CompoNet Response Timeout Time (default: 2 s) 10 s recommended ・Number of retries (default: 0) Shared Resources ・Communications ports (internal logical ports) Other ・Communications must be within one network and cannot cross to another network.	
Function description	Reads the alarm status toward CompoNet Master Unit specified by Master Unit No. Refer to the FINS error code if an error occurs. Error code will be output as #0000 for a normal end.	
FB precautions	・The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed. ・OK or NB will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. Timechart 	
EN input condition	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB.	
Restrictions **Input variables**	・Always use an upwardly differentiated condition for EN. ・If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.	
Output variables	・This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see *Symbol*). ・Do not turn the BUSY output variable ON or OFF outside the FB.	

Application example	When bit A turns ON, the alarm status specified slave type will be read and output for D0. 
Related manuals	FINS Error Codes *Communications Commands Reference Manual (W342)* *5-1-3 Error Codes*

Variable Tables
Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started. 0 (OFF): FB not started.
Master Unit No.	MasterUnitNo	INT	&0	&0 to &99 #0 to #63	Specify the unit number of the CompoNet Master Unit.
Slave Type	NodeType	INT	&1	&1 to &7	Specify the node address of the slave.

Output Variables

Name	Variable name	Data type	Range	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.

<table>
<tr>
<td>Alarm status</td>
<td>AlarmStat</td>
<td>8words</td>
<td></td>
<td>Outputs the alarm status.
Word IN, MIX (Slave Type &1 or &3)
+0 CH IN(MIX)15-0
+1 CH IN(MIX)31-16
+2 CH IN(MIX)47-32
+3 CH IN(MIX)63-48
+4 CH
+5 CH
+6 CH
+7 CH
Word OUT (Slave Type &2)
+0 CH OUT15-0
+1 CH OUT31-16
+2 CH OUT47-32
+3 CH OUT63-48
+4 CH
+5 CH
+6 CH
+7 CH
Bit IN, MIX Slave Type &4 or &6)
+0 CH IN(MIX)15-0
+1 CH IN(MIX)31-16
+2 CH IN(MIX)47-32
+3 CH IN(MIX)63-48
+4 CH IN(MIX)79-64
+5 CH IN(MIX)95-80
+6 CH IN(MIX)111-96
+7 CH IN(MIX)127-112
Bit OUT (Slave Type &5)
+0 CH OUT15-0
+1 CH OUT31-16
+2 CH OUT47-32
+3 CH OUT63-48
+4 CH OUT79-64
+5 CH OUT95-80
+6 CH OUT111-96
+7 CH OUT127-112
Repeater (Slave Type &7)
+0 CH Repeater15-0
+1 CH Repeater31-16
+2 CH Repeater47-32
+3 CH Repeater63-48
+4 CH
+5 CH
+6 CH
+7 CH</td>
</tr>
<tr>
<td>FINS error code
(May be omitted.)</td>
<td>FINSError</td>
<td>WORD</td>
<td></td>
<td>The FINS error code is output. A code of #0000 is output for a normal end. Refer to the Related Manuals for details on the error codes.</td>
</tr>
</table>

Version History

Version	Date	Contents
1.00	2006.9.	Original production

Note
This manual is a reference that explains the function block functions.
It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.