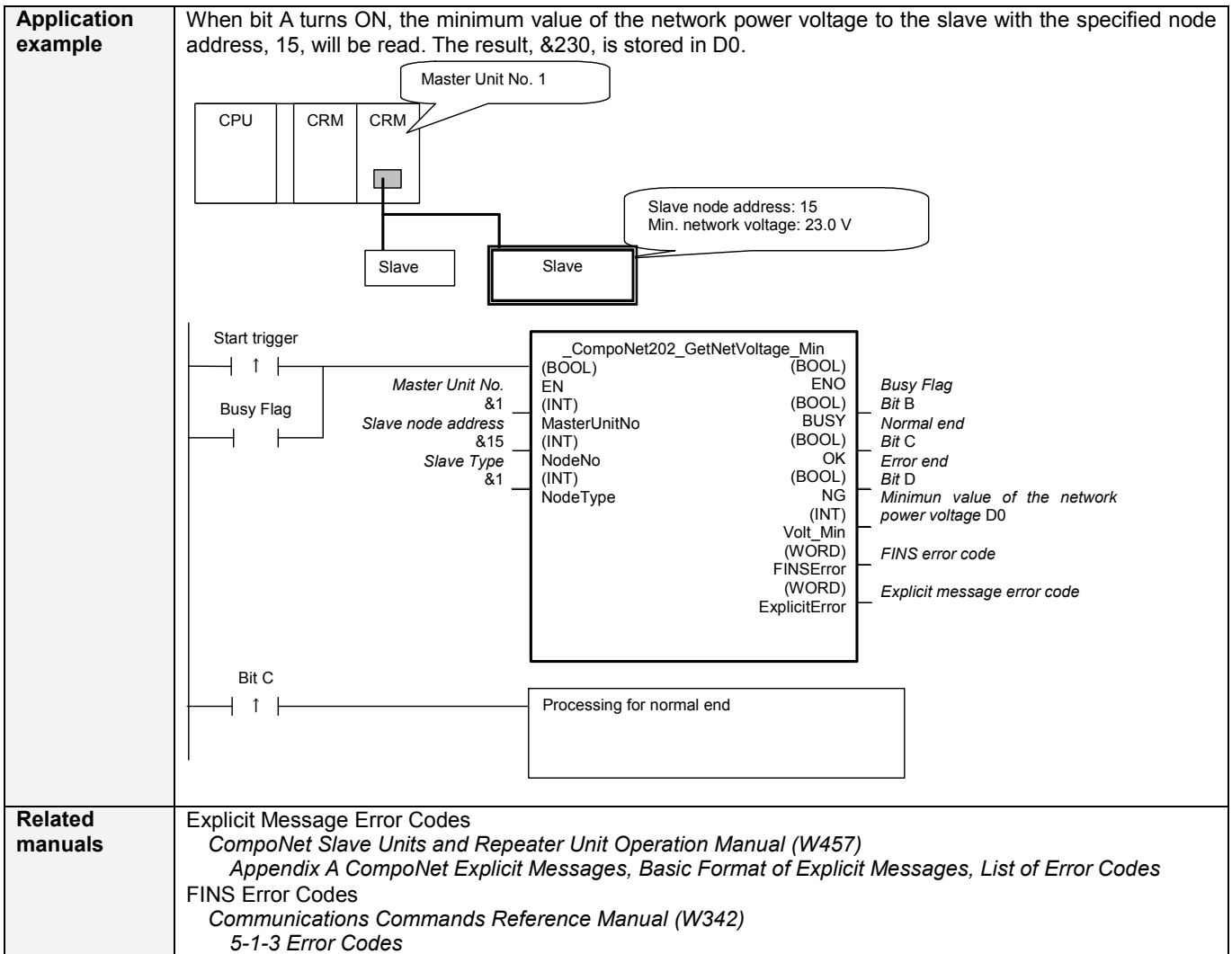| CompoNet -202	Read Network Voltage Munimum: _CompoNet202_GetNetVoltage_Min

Basic function	Reads the minimum values of the network power voltage from slaves connected to CompoNet.
Symbol	
File name	Lib\FBL\omronlib\RemoteIO\CompoNet_CompoNet202_GetNetVoltage_Min.cxf
Applicable models	Applicable Master Units	CS1W-CRM21 and CJ1W-CRM21
	Applicable Slave Units	CRT1-ID16, CRT1-OD16, CRT1-AD04, CRT1-DA02 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 verision 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 Setting PLC Setup: Shared Setting for Communications Instructions in FBs ・CompoNet Response Timeout Time (default: 2 s) 10 s recommended ・Number of retries (default: 0) Shared Resources ・Communication ports (internal logical ports) Other ・Communications must be within one network and cannot cross to another network.
Function description	The minimum voltage of the network power is read from the CompoNet slave specified by the Master Unit No., the Slave node address and the Slave Type. Refer to the FINS error code and explicit message error code if an error occurs. Both error codes 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 NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing.
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 th FB.

Application example	When bit A turns ON, the minimum value of the network power voltage to the slave with the specified node address, 15, will be read. The result, &230, is stored in D0.

Master Unit No. 1

CPU	CRM	CRM

Slave node address: 15
Min. network voltage: 23.0 V

Slave		Slave

Start trigger

Busy Flag

```
                  _CompoNet202_GetNetVoltage_Min
(BOOL)                                    (BOOL)
EN                                         ENO        Busy Flag
(INT)                                     (BOOL)      Bit B
MasterUnitNo                               BUSY       Normal end
(INT)                                     (BOOL)      Bit C
NodeNo                                      OK        Error end
(INT)                                     (BOOL)      Bit D
NodeType                                    NG        Minimun value of the network
                                          (INT)       power voltage D0
                                         Volt_Min
                                          (WORD)      FINS error code
                                         FINSError
                                          (WORD)      Explicit message error code
                                         ExplicitError
```

Master Unit No. &1 → MasterUnitNo
Slave node address &15 → NodeNo
Slave Type &1 → NodeType

Bit C

Processing for normal end

Related manuals	Explicit Message Error Codes
	  CompoNet Slave Units and Repeater Unit Operation Manual (W457)
	    Appendix A CompoNet Explicit Messages, Basic Format of Explicit Messages, List of Error Codes
	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 node address	NodeNo	INT	&0	&0 to &127	Specify the node addres of the slave.
Slave Type	NodeType	INT	&1	&1 to &7	Slave Type 1: Word Slave IN 2: Word Slave OUT 3: Word Slave MIX 4: Bit Slave IN 5: Bit Slave OUT 6: Bit Slave MIX 7: Repeater

Output Variable

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.
Minimun value of the network power voltage	Volt_Min	INT	&0 to &264	The minimum value of the network power voltage is output (unit: 0.1 V). For example, &240 would be output 24.0 V.
FINS error code (May be omitted)	FINSError	WORD		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.
Explicit message error code (May be omitted)	ExplicitError	WORD		Outputs the explicit message error code. A code of #0000 is output for a normal end. Refer to the *Related Manuals* for details on the error codes.

Version History

Version	Date	Contents
1.00	2006.9.	Original production

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