CompoNet	Read Load OFF Wire Status:					
215	_CompoNet215_GetLoadOffWire_	_Stat				

Basic function	Reads the Output load unconnection status from Slaves on CompoNet. The FB is used for output terminals.				
Symbol	Slave no	Ler Unit No. de address assification MasterUnitNo de address assification ModeType ModeTy			
File name	Lib\FBL\omronlib\Remo	teIO\CompoNet_CompoNet215_GetLoadOffWire_Stat10.cxf			
Applicable models	Applicable Master units Applicable Slave units	Models with 8 output points:			
		CRT1-OD08TAH(-1)/CRT1-OD8SLH(-1) • Models with 16 MIX points: CRT1-MD16TAH(-1)/CRT1-MD16SH(-1)/CRT1-MD16SLH(-1) • Models with 16 output points: CRT1-OD16TAH(-1)/CRT1-OD16SH(-1)/CRT1-OD16SLH(-1) • Models with 32 MIX points: CRT1-MD32SH(-1)/CRT1-MD32SLH(-1) • Models with 32 output points: CRT1-OD32SH(-1)/CRT1-OD32SLH(-1)			
	CPU	CS1*-CPU**H in Unit version 3.0 or later CJ1*-CPU**H in Unit version 3.0 or later CJ1M-CPU** in Unit version 3.0 or later CP1H			
	CX-Programmer	Version 3.0 or later			
Used Language	Ladder logic language				
Conditions for usage	 - CPU Unit settings PC setup: Shared Settings for Communication Instructions in FBs 				
Function description	It gets the output load unconnection status on a CompoNet Slave, which is specified by the Master Unit No., the Slave node address and the Slave classification. Refer to the FINS error code and the Explicit message error code when having an error. Both error code outputs at a normal end are #00000.				
FB Definition Type	Processing over multiple cycles After the start-up, the FB is processed over multiple cycles. In order to save the internal state, an identical instance cannot be used in multiple locations at the same time.				

FB precautions	The FB is processed over multiple cycles. The output variable BUSY is to check whether the FB is being processed or not. After the process completes, OK or NG will be ON for just one cycle. Use the flag to detect the end of FB process. Time chart Startup trigger ON OFF Busy flag (BUSY) ON OFF Normal end (OK) or ON OFF The FB has been implemented.			
EN input condition	Connect EN to the OR between the startup of the Start Trigger and the BUSY output from FB.			
Restrictions Input variables	 Be sure to use an upwardly differentiated condition (↑) for EN inputs. If the input variables are out of the specified range, the ENO flag will be off. The FB is not processed. 			
Output variables	 The FB requires to be processed over multiple cycles. In order to ensure the FB is processed to the final cycle, connect the output variable BUSY to the OR circuit: the input condition to the input variable EN. See the section of Symbol. Do not make the output variable BUSY flag ON or OFF outside the FB. 			
Application examples	Turning ON the bit A will read the Output load unconnected status of the Slave, which is specified by the node address 15. As a result, #0000ABCD is stored in D0-D1.			
Related manuals	 Explicit massage error code User's Manual for CompoNet CRT1 series (Doc. # SBCD-339) Appendix 1-1 Basic format of Explicit message "Error code list" FINS error code 			
	Communication Command Reference (Doc. # SBCA-304) 5-1. FINS command list "Terminal code list"			

Variable table

Input variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL	0		1(ON): To start FB. 0(OFF): Not to start FB.
Master Unit No.	MasterUnitNo	INT	&0	&0 to &95 #0 to #5F	To specify the unit number of the CompoNet Master unit.
Slave node address	NodeNo	INT	&0	&0 to &63	To specify the Slave node address.
Slave classification	NodeType	INT	&2	&2 or &3	Slave classification 2: OUT Word Slave 3: MIX Word Slave

Output variables				
Name	Variable name	Date type	Range	Description
ENO	ENO	BOOL		1(ON): FB functions normally.
(May be omitted)				0(OFF): FB does not start up or has an error end.
Busy flag	BUSY	BOOL		To turn off automatically after the process completes.
Normal end	OK	BOOL		Cycle goes ON for once after the normal end.
Error end	NG	BOOL		Cycle goes ON for once after the error end.
Output load	Stat32	DWORD	#00000000	To output the output load unconnected status.
unconnection			to	< <data description="">></data>
status			#FFFFFFFF	 In a 8-ouput point unit,
DWORD bit				Bit0 to 7: unconnected status of terminal 0 to 7.
(May be omitted)				Bit8 to 31: Reserved(OFF)
				 In a16-ouput point unit,
				Bit0 to 15: unconnected status of terminal 0 to 15.
				Bit16 to 31: Reserved(OFF)
				 In a32-output point unit,
				Bit0 to 31: unconnected status of terminal 0 to 31.
				0(OFF): Normal
				1(ON): Shorted
FINS error code	FINSError	WORD		To output the FINS error code. The output will be
(May be omitted)				#0000 in a normal end. Refer to the Related manuals
				for details of the error codes.
Explicit massage	ExplicitError	WORD		To output the Explicit message error code. The output
error code				will be #0000 in a normal end. Refer to the Related
(May be omitted)				manuals for the details of the error codes.

Version history

Version Number	Date	Description
1.00	2008.05	Original production