V68x 407 Write with Error Correction _V68x407_WriteDataErrorCorrection

Basic unction	ID tag with the data from	the error correc	ting writes.		
Symbol			0		
	Write data stora Write data stora Communica	Unit No Antenna No ID Tag address to write in ID Tag storage area type age word address tions designation ssing designation Cancel	_V68x407_WriteDataErro (BOOL) EN (INT) UnitNo (INT) AntennaNo (WORD) TagAddress (INT) WriteBytes (WORD) DataAreaID (INT) DataAreaID (INT) DataAreaNo (INT) Communications (INT) ByteOrder (BOOL) Cancel	rCorrection (BOOL) BUSY (BOOL) OK (BOOL) NG (WORD) ErrorCode	Busy Flag Normal end Error end Error code
File name	Lib¥FBL¥omronlib¥RFID	≨V680¥_V68x4	07_WriteDataErrorCorr	rection10.cx	f
Applicable	ID Sensor Units	CS1W-V680C1	1/V680C12 and CJ1W-	V680C11/V	680C12
models	(CJ1*-CPU**H CJ1M-CPU** CP1H	Unit version 3.0 or hig Unit version 3.0 or hig Unit version 3.0 or high	her	
		Version 5.0 or h	ligher		
Language used	Ladder Language				
Function	Writes the designated data to the ID Tag beginning from the specified start address, and writes the Tag				
description	memory check code and error correction code to the next 5 bytes of memory.				
Kind of	Up to 510 bytes (255 words) can be specified for one command execution.				
FB definition	more-cycle execution type After it starts, this FB is processed across two or more cycles. Because the state is maintained internally, the same instance cannot be used in two or more places at the same time.				

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. 						
	$\begin{tabular}{ c c c c c c } \hline & Timechart \\ \hline Start Trigger \\ (User \rightarrow FB) \\ \hline FB_BUSY \\ (FB \rightarrow User) \\ \hline Command issued \\ (FB \rightarrow Unit) \\ \hline ID Tag information is received \\ (ID Tag \rightarrow Unit) \\ \hline Data transmission \\ (Unit \rightarrow ID Tag) \\ \hline \end{array}$						
	Complete processing (Unit→FB) FB_OK (FB→User) • This FB cannot be executed if the ID Sensor Unit is busy. The NG Flag will turn ON if an attempt is made. • When FB is executed if result monitor output of the system construction is set to the setting of the noise level, the noise level is output to the error code. • The word designation for storing the data is specified using the area type and beginning word address. For example, for D1000, the area type is set to P DM and the beginning word address is set to &1000.						
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. Always specify a antenna number of &1 for One-antenna ID Sensor Units (CS1W-V680C11 and CJ1W-V680C11). Check the memory capacity of the ID Tag when specifying the ID Tag address and ID Tag number of bytes to process. An address error will be output if the specified ID Tag address and ID Tag number of bytes to process are not suitable for the memory capacity of the ID Tag being communicated with. Check area behind the 5 bytes is the area code for the check, Write to the ban. Up to 510 bytes (255 words) can be write at one time. Bytes to write in ID Tag is 0 if executed, the units depend on the state of no clear error code. And a normal end. 						
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 <i>Symbol</i>). Do not turn the BUSY output variable ON or OFF outside the FB. 						

Application example	When bit A turns ON in the following example, data stored in D1000 will be written to the ID Tag connected to Antenna 1 of the ID Sensor Unit with unit number 3.			
	#2 #3 Unit No.:「3」 CPU UNIT V680 Antenna No.:「1」 Antenna ID Tag			
	Bit A			
	&1 AntennaNo OK Bit C ID Tag address (WORD) (BOOL) Error end #10 TagAddress NG Bit D			
	Bytes to write in ID Tag (INT) (WORD) Error code & WriteBytes ErrorCode			
	Write data storage area type (WORD) P_DM DataAreaID Write data storage word address (INT)			
	&1000 DataAreaNo			
	Communications designation (INT) &0 Communications			
	Processing designation (INT) &0 ByteOrder			
	Cancel (BOOL) Bit X Cancel			
Related manuals	ID Sensor Unit Operation Manual (SCHI-711) 4 I/O Data Allocations, Error Codes 6 Communications Commands, Write with Error Correction			

■Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			ON is executed when FB has been turned
					on.
					1 (ON): FB started.
					0 (OFF): FB not started.
Unit No.	UnitNo	INT	&0	&0~&95	Specify the unit number.
Antenna No.	AntennaNo	INT	&1	&1~&2	Specify the antenna number.
					&1: Antenna 1
					&2: Antenna 2 (Two-antenna Controllers
					only)
ID Tag address	TagAddress	WORD	#0		Specify the ID Tag address.
Bytes to write in ID	WriteBytes	WORD	&0	&0~&510	Specify the number of processing bytes of
Tag					ID tag.
-					Nothing will be performed and a normal end
					will be output for &0.
					Consider the ID Tag capacity when setting.
Write data storage	DataAreaID	WORD	#00B0	At right.	Specify the write data storage area type.
area type					P_CIO (#00B0): CIO Area
					P_WR (#00B1): Work Area
					P_HR (#00B2): Holding Area
					P_DM (#0082): DM Area
					P_EM0 (#0050) to P_EMC (#005C):
					EM Area bank 0 to C
Write data storage	DataAreaNo	INT	&0		Write data storage location of the beginning
word address					of the channel number.
Communications	Communications	INT	&0	&0~&6	Specify the communication method with the
designation					ID tag.
					&0: Trigger
					&1: Auto
					&2: Repeat auto
					&3: FIFO trigger
					&4: FIFO repeat
					&5: Multi-access trigger
					&6: Multi-access repeat
Processing	ByteOrder	INT	&0	&0~&1	Specify the byte order.
designation					&0: Upper to lower
					&1: Lower to upper
					0: Upper to lower Address ID Tag CPU Unit
					_memorymemory
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
					0013 04
					1: Lower to upper
					Address ID Tag CPU Unit
					memory memory 0010 01 02 01
					$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
					0012 03
					0013 04

Output Variables

Name	Variable name	Data type	Default	Description
ENO	ENO	BOOL		1 (ON): FB processed normally.
(May be omitted.)				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.
Error code	ErrorCode	WORD		Outputs the results from the ID Sensor Unit. Refer to the <i>Related Manuals</i> for details.
				#0014: Data storage area Specification error * #0014: Command error *
				#0070: ID Tag communications error #0071: Verification error
				#0071: Venication error #0072: ID Tag missing error
				#0072. ID hay missing end #0076: Status Flag
				#0070: Status Flag #0077: Error correction
				#0079: ID system error 1
				#007A: ID Tag address error
				#007C: Antenna error flag
				#007D: Write protection error
				#007E: ID system error 2
				#007F: ID system error 3
				#FFFE: ID Tag is communicating.
				#FFFF: Input parameter error
				* :#0014 has two item factor. Please confirm, and
				divide the corresponding flag about details. Related
				manuals SCHI-711 7 Abnormal processing J

■Version History

Version	Date	Contents
1.00	2008.04	Original production