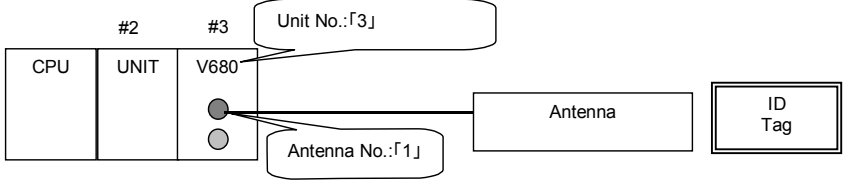
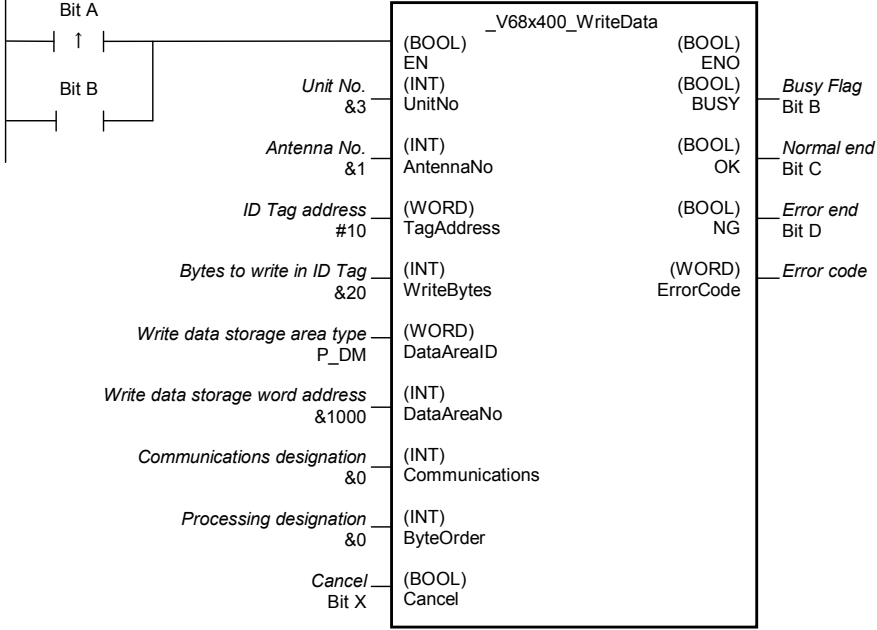


V68x400	Write Data to ID Tag _V68x400_WriteData
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Basic unction	Writes data to a ID Tag.																
Symbol		<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; border-right: 1px solid black; padding: 2px;"> (BOOL) EN (INT) UnitNo (INT) AntennaNo (WORD) TagAddress (INT) WriteBytes (WORD) DataAreaID (INT) DataAreaNo (INT) Communications (INT) ByteOrder (BOOL) Cancel </td> <td style="width: 5%; text-align: center; vertical-align: middle;">_V68x400_WriteData</td> <td style="width: 45%; padding: 2px;"> (BOOL) ENO (BOOL) BUSY (BOOL) OK (BOOL) NG (WORD) ErrorCode </td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">Busy Flag</td> <td></td> <td style="padding: 2px;">Busy Flag</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">Normal end</td> <td></td> <td style="padding: 2px;">Normal end</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">Error end</td> <td></td> <td style="padding: 2px;">Error end</td> </tr> <tr> <td style="border-right: 1px solid black; padding: 2px;">Error code</td> <td></td> <td style="padding: 2px;">Error code</td> </tr> </table>	(BOOL) EN (INT) UnitNo (INT) AntennaNo (WORD) TagAddress (INT) WriteBytes (WORD) DataAreaID (INT) DataAreaNo (INT) Communications (INT) ByteOrder (BOOL) Cancel	_V68x400_WriteData	(BOOL) ENO (BOOL) BUSY (BOOL) OK (BOOL) NG (WORD) ErrorCode	Busy Flag		Busy Flag	Normal end		Normal end	Error end		Error end	Error code		Error code
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Error end		Error end															
Error code		Error code															
File name	Lib\FBL\omronlib\RFID\V680\ V68x400_WriteData10.cxf																
Applicable models	ID Sensor Units	CS1W-V680C11/V680C12 and CJ1W-V680C11/V680C12															
	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															
	Language used		Ladder Language														
Function description	Data is written to the specified area of the ID Tag specified by the <i>Unit No.</i> and <i>Antenna No.</i> Up to 2048 bytes (1024 words) can be written at one time.																
Kind of 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	<ul style="list-style-type: none"> • Verification will not be performed unless it is specified when writing. • 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. <p>Timechart</p> <ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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. • 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. 																

<p>Output variables</p>	<ul style="list-style-type: none"> • 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. 																																												
<p>Application example</p>	<p>When bit A turns ON in the following example, Error correction with data stored in D1000 will be written to the ID Tag connected to Antenna 1 of the ID Sensor Unit with unit number 3.</p>   <table border="1" data-bbox="730 504 1098 1131"> <thead> <tr> <th>Input</th> <th>Parameter</th> <th>Data Type</th> <th>Output</th> </tr> </thead> <tbody> <tr> <td>EN</td> <td>Unit No. &3</td> <td>(BOOL)</td> <td>Busy Flag Bit B</td> </tr> <tr> <td>UnitNo</td> <td>Antenna No. &1</td> <td>(INT)</td> <td>Normal end Bit C</td> </tr> <tr> <td>AntennaNo</td> <td>ID Tag address #10</td> <td>(WORD)</td> <td>Error end Bit D</td> </tr> <tr> <td>TagAddress</td> <td>Bytes to write in ID Tag &20</td> <td>(INT)</td> <td>Error code</td> </tr> <tr> <td>WriteBytes</td> <td>Write data storage area type P_DM</td> <td>(WORD)</td> <td></td> </tr> <tr> <td>DataAreaID</td> <td>Write data storage word address &1000</td> <td>(INT)</td> <td></td> </tr> <tr> <td>DataAreaNo</td> <td>Communications designation &0</td> <td>(INT)</td> <td></td> </tr> <tr> <td>Communications</td> <td>Processing designation &0</td> <td>(INT)</td> <td></td> </tr> <tr> <td>ByteOrder</td> <td>Cancel Bit X</td> <td>(BOOL)</td> <td></td> </tr> <tr> <td>Cancel</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Input	Parameter	Data Type	Output	EN	Unit No. &3	(BOOL)	Busy Flag Bit B	UnitNo	Antenna No. &1	(INT)	Normal end Bit C	AntennaNo	ID Tag address #10	(WORD)	Error end Bit D	TagAddress	Bytes to write in ID Tag &20	(INT)	Error code	WriteBytes	Write data storage area type P_DM	(WORD)		DataAreaID	Write data storage word address &1000	(INT)		DataAreaNo	Communications designation &0	(INT)		Communications	Processing designation &0	(INT)		ByteOrder	Cancel Bit X	(BOOL)		Cancel			
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<p>Related manuals</p>	<p>ID Sensor Unit Operation Manual (SCHI-711)</p> <p>4 I/O Data Allocations, Error Codes</p> <p>6 Communications Commands, Write</p>																																												

■ 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 of the object. &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 Tag	WriteBytes	INT	&0	&0~&2048	Specify the number of processing bytes of 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 area type	DataAreaID	WORD	#00B0	At right.	Specify the write data storage 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 word address	DataAreaNo	INT	&0		Write data storage location of the beginning of the channel number.																														
Communications designation	Communications	INT	&0	&0~&6	Specify the communication method with the ID tag. &0: Trigger &1: Auto &2: Repeat auto &3: FIFO trigger &4: FIFO repeat &5: Multi-access trigger &6: Multi-access repeat																														
Processing designation	ByteOrder	INT	&0	&0~&1	Specify the byte order. &0: Upper to lower &1: Lower to upper 0: Upper to lower <table style="margin-left: 20px;"> <thead> <tr> <th>Address</th> <th>CPU Unit memory</th> <th>ID Tag memory</th> </tr> </thead> <tbody> <tr> <td>n</td> <td>01 02</td> <td>01</td> </tr> <tr> <td>n+1</td> <td>03 04</td> <td>02</td> </tr> <tr> <td>n+2</td> <td></td> <td>03</td> </tr> <tr> <td>n+3</td> <td></td> <td>04</td> </tr> </tbody> </table> 1: Lower to upper <table style="margin-left: 20px;"> <thead> <tr> <th>Address</th> <th>CPU Unit memory</th> <th>ID Tag memory</th> </tr> </thead> <tbody> <tr> <td>n</td> <td>02 01</td> <td>01</td> </tr> <tr> <td>n+1</td> <td>04 03</td> <td>02</td> </tr> <tr> <td>n+2</td> <td></td> <td>03</td> </tr> <tr> <td>n+3</td> <td></td> <td>04</td> </tr> </tbody> </table>	Address	CPU Unit memory	ID Tag memory	n	01 02	01	n+1	03 04	02	n+2		03	n+3		04	Address	CPU Unit memory	ID Tag memory	n	02 01	01	n+1	04 03	02	n+2		03	n+3		04
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n+3		04																																	
Cancel	Cancel	BOOL	0(OFF)		0→1: Cancels processing.																														

Output Variables

Name	Variable name	Data type	Default	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.

Error code	ErrorCode	WORD	<p>Outputs the results from the ID Sensor Unit. Refer to the <i>Related Manuals</i> for details.</p> <p>#0014: Data storage area Specification error * #0014: Command error * #0070: ID Tag communications error #0071: Verification error #0072: ID Tag missing error #0076: 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</p> <p>* :#0014 has two item factor. Please confirm, and divide the corresponding flag about details.「Related manuals SCHI-711 7 Abnormal processing 」</p>
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■Version History

Version	Date	Contents
1.00	2008.04.	Original production