| $\begin{aligned} & \hline \hline \text { V68x } \\ & 404 \end{aligned}$ | Write Calculation＿V68x404＿WriteCalculation |
| :---: | :---: |
| Basic function | Performs a calculation between ID Tag data and specified data and writes the result to the ID Tag． |
| Symbol |  |
| File name | Lib¥FBL¥omronlib¥RFID¥V680¥＿V68x404＿WriteCalculation10．cxf |
| Applicable models | ID Sensor Units $\quad$ CS1W－V680C11／V680C12 and CJ1W－V680C11／V680C12 |
|  | CPU Unit CS1＊－CPU＊＊H <br> CJ1 <br>  CPU＊＊ <br> CJ1M－CPU＊＊ <br> CP1H |
|  | CX－Programmer $\quad$ Version 5.0 or higher |
| Language used | Ladder Language |
| Function description | The specified data is read，the specified calculation is performed the data，and the result is written to the ID Tag specified by the Unit No．and Antenna No． Up to 4 bytes（ 2 words）can be specified for one command execution． |
| Kind of FB definition | more－cycle execution type <br> After it starts，this FB is processed across two or more cycles． <br> Because the state is maintained internally，the same instance cannot be used in two or more places at the same time． |
| FB precautions | －Error Code will be 76 if an overflow occurs for addition or an underflow occurs for subtraction． <br> －Verification will not be performed unless it is specified when writing． <br> $\cdot\lceil E E P-R O M 」$ Type of ID tag，the area write on the page so as not to duplicate specified． <br> Write area of the page is duplicated when the process was not done，「address error」output． <br> －The FB is processed over multiple cycles．The BUSY output variable can be used to check whether the FB is being processed． <br> －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． Timechart <br> －This FB cannot be executed if the ID Sensor Unit is busy．The NG Flag will turn ON if an attempt is made． <br> －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． |
| EN input condition | Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB． |


_Variable Tables
Input Variables

| Name | Variable name | Data type | Default | Range | Description |
| :--- | :--- | :--- | :--- | :--- | :--- |
| EN | EN | BOOL |  |  | ON is executed when FB has been turned <br> on. <br> 1 (ON): FB started. <br> O (OFF): FB not started. |
| Unit No. | UnitNo | INT | $\& 0$ | $\& 0 \sim \& 95$ | Specify the unit number. |
| Antenna No. | AntennaNo | INT | $\& 1$ | $\& 1 \sim \& 2$ | Specify the antenna number of the object. <br> \&1: Antenna 1 <br> \&2: Antenna 2 (Two-antenna Controllers <br> only) |
| ID Tag address | TagAddress | WORD | $\# 0$ | 8 | $\& 0 \sim \& 4$ |
| Bytes to process <br> in ID Tag | WriteBytes | INT | Specify the ID Tag address. <br> ID tag. the number of processing bytes of <br> Consider the ID Tag capacity when setting. <br> Nothing will be performed and a normal end <br> will be output for \&0. |  |  |
| Calculation data | Data |  |  |  |  |


| Communications designation | Communications | INT | \& 0 | \&0~\&6 | The communication method with the ID tag is specified. <br> \&0: Trigger <br> \&1: Auto <br> \&2: Repeat auto <br> \&3: FIFO trigger <br> \&4: FIFO repeat <br> \&5: Multi-access trigger <br> \&6: Multi-access repeat |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Processing designation | ByteOrder | INT | \& 0 | \&0~\&1 | Specific data to specify the order. <br> \&0: Upper to lower <br> \&1: Lower to upper <br> 0: Upper to lower |
| Calculation specification | Calculation | INT | \& 0 | \& $0 \sim$ \& 1 | Specify the calculation method. <br> \&0: Addition <br> \&1: Subtraction |
| Cancel | Cancel | BOOL | 0(OFF) |  | $0 \rightarrow 1$ : Cancels processing. |

Output Variables

| Name | Variable name | Data type | Default | Description |
| :---: | :---: | :---: | :---: | :---: |
| ENO <br> (May be omitted.) | ENO | BOOL |  | 1 (ON): FB processed normally. <br> 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. |
| Result | Result | DWORD |  | If the number of bytes to process is between 1 and 3 , the data in the lower address is valid. <br> 1 byte specified <br> 3 bytes specified |
| Error code | ErrorCode | WORD |  | Outputs the results from the ID Sensor Unit. <br> Refer to the Related Manuals for details. <br> \#0014: Data storage area Specification error * <br> \#0014: Command error * <br> \#0070: ID Tag communications error <br> \#0071: Verification error <br> \#0072: ID Tag missing error <br> \#0076: Status Flag <br> \#0077: Error correction <br> \#0079: ID system error 1 <br> \#007A: ID Tag address error <br> \#007C: Antenna error flag <br> \#007D: Write protection error <br> \#007E: ID system error 2 <br> \#007F: ID system error 3 <br> \#FFFE: ID Tag is communicating. <br> \#FFFF: Input parameter error <br> *:\#0014 has two item factor. Please confirm, and divide the corresponding flag about details.「Related manuals SCHI-711 7 Abnormal processing 」 |

-Version History

| Version | Date | Contents |
| :--- | :--- | :--- |
| 1.00 | 2008.04. | Original production |

