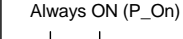
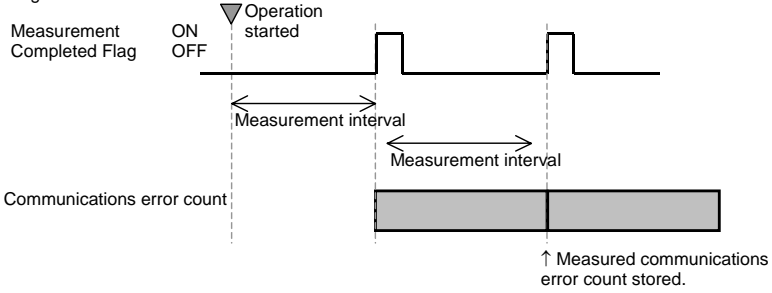
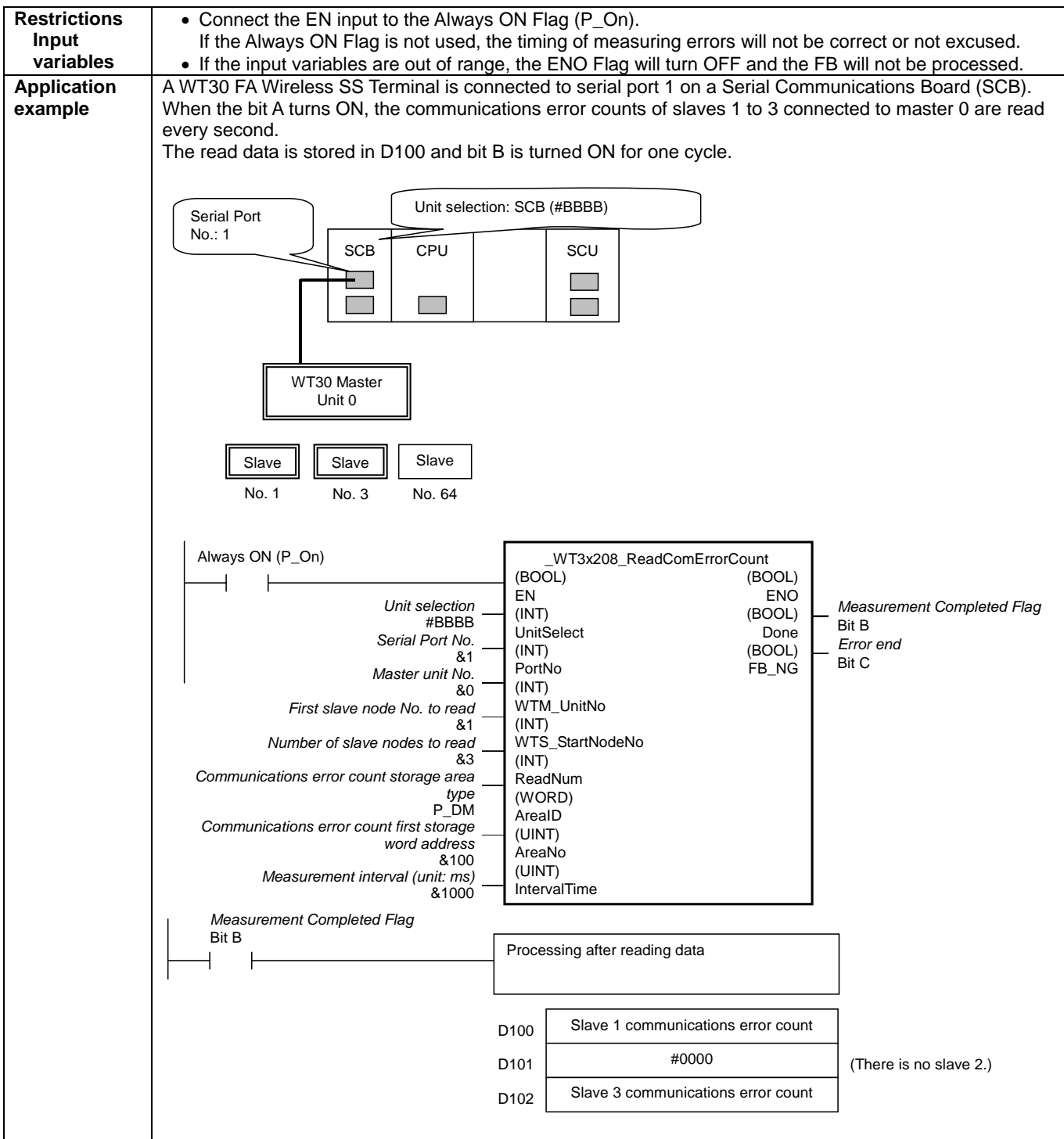


WT3x208 **Read Communications Error Count: _WT3x208_ReadComErrorCount**

Basic function	Reads the communications error counts over a specific interval.																													
Symbol	<p>Always ON (P_On)</p>  <p>Unit selection</p> <p>Serial Port No.</p> <p>Master unit No.</p> <p>First slave node No. to read</p> <p>Number of slave nodes to read</p> <p>Communications error count storage area type</p> <p>Communications error count first storage word address</p> <p>Measurement interval (unit: ms)</p>	<table border="1"> <tr> <td>_WT3x208_ReadComErrorCount (BOOL)</td> <td>(BOOL)</td> <td rowspan="2">Measurement Completed Flag</td> </tr> <tr> <td>EN (BOOL)</td> <td>ENO (BOOL)</td> </tr> <tr> <td>UnitSelect (INT)</td> <td>Done (BOOL)</td> <td rowspan="2">Error end</td> </tr> <tr> <td>PortNo (INT)</td> <td>FB_NG (BOOL)</td> </tr> <tr> <td>WTM_UnitNo (INT)</td> <td></td> <td></td> </tr> <tr> <td>WTS_StartNodeNo (INT)</td> <td></td> <td></td> </tr> <tr> <td>RreadNum (WORD)</td> <td></td> <td></td> </tr> <tr> <td>AreaID (UINT)</td> <td></td> <td></td> </tr> <tr> <td>AreaNo (UINT)</td> <td></td> <td></td> </tr> <tr> <td>IntervalTime (ms)</td> <td></td> <td></td> </tr> </table>	_WT3x208_ReadComErrorCount (BOOL)	(BOOL)	Measurement Completed Flag	EN (BOOL)	ENO (BOOL)	UnitSelect (INT)	Done (BOOL)	Error end	PortNo (INT)	FB_NG (BOOL)	WTM_UnitNo (INT)			WTS_StartNodeNo (INT)			RreadNum (WORD)			AreaID (UINT)			AreaNo (UINT)			IntervalTime (ms)		
_WT3x208_ReadComErrorCount (BOOL)	(BOOL)	Measurement Completed Flag																												
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AreaNo (UINT)																														
IntervalTime (ms)																														
File name	Lib\FBL\omronlib\WirelessTerminal\WT30_WT3x_WT3x208_ReadComErrorCount10.cxf																													
Applicable models	Master	WT30-M01-FLK																												
	Slave	WT30-SID16/SMD16/SMD16-1																												
	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 CP1L (except 10 points CPU)																												
	Serial Communications Units/Boards	CS1W-SCU21-V1, CJ1W-SCU21-V1, CJ1W-SCU41-V1 Unit Version 1.2 or higher CS1W-SCB21-V1 and CS1W-SCB41-V1 Unit Version 1.2 or higher																												
	CX-Programmer	Version 5.0 or higher																												
Conditions for usage	<p>WT30 FA Wireless SS Terminal</p> <ul style="list-style-type: none"> This function block can be used only in RUN mode. This function block cannot be used in TEST or SET mode. <p>Communications Settings</p> <p>The communications settings of the serial port must be the same as those of the WT30 FA Wireless SS Terminal.</p> <ul style="list-style-type: none"> The communications settings of the specified serial port can be set to the default WT30 settings using the Set Communications Port (_WT3x600_SetComm) function block, and the other WT30 settings using the Set Serial Gateway Mode (_SCx604_SetPortGATEWAY) function block. Use Serial Communications Unit (SCU) or Serial Communications Board (SCB) unit version 1.2 or later. <p>CPU Unit Settings</p> <p>PLC Setup: Shared Settings for Communications Instructions in FBs</p> <ul style="list-style-type: none"> Communications Instruction Response Timeout Time (default: 2 s) Number of Retries (default: 3) <p>Shared Resources</p> <ul style="list-style-type: none"> Communications ports (internal logical ports) 																													
Function description	<p>The communications error counts of the specified slaves are read over a specific interval. The communications error count of the specified slaves is output and the Measurement Completed Flag is turned ON.</p> <p>Up to 16 nodes can be specified.</p> <p>If the processing time required for the FB is longer than the specified measurement time, measurements will be performed for the processing time.</p>																													
FB precautions	<ul style="list-style-type: none"> Program this FB so that it is always executed. <ul style="list-style-type: none"> Timing Chart 																													
EN input condition	Connect the EN input to the Always ON Flag (P_On).																													



Variable Tables**Input Variables**

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			ON: FB started OFF: FB not started.
Unit selection	UnitSelect	INT	&0	At right.	Specify the Unit and the serial port. Only serial port 2 of CP1H/CP1L M-type CPU unit is possible to use this FB. <ul style="list-style-type: none"> ■ Connected to CPU Unit <ul style="list-style-type: none"> Unit selection #FFFF Serial port No. Not accessed. (CP1H/CP1L-M: Serial Port2 CP1L-L14/20: Serial Port1) ■ Connected to Serial Communication Board(SCB) <ul style="list-style-type: none"> Unit selection #BBBB Serial port No. &1: Serial Port 1 &2: Serial Port 2 ■ Connected to Serial Communication Unit(SCU) <ul style="list-style-type: none"> Unit selection SCU Unit No. (&0 to &15) Serial port No. &1: Serial Port 1 &2: Serial Port 2
Serial Port No.	PortNo	INT	&1	&1 to &2	
Master unit No.	WTM_UnitNo	INT	&0	&0 to &99	Specify the unit number of the master.
First slave node No. to read	WTS_NodeNo	INT	&1	&1 to &64	Specify the node number of the first slave for which the communications error count is to be read.
Number of slave nodes to read	ReadNum	INT	&0	&0 to &16	Specify the number of slave nodes for which the communications error count is to be read.
Communications error count storage area type	AreaID	WORD	#0082	At right.	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_EM0 (#005C): EM Area bank 0 to C
Communications error count first storage word address	AreaNo	UINT	&0		
Measurement interval (unit: ms)	IntervalTime	UINT	&0	&0 to &65535	Specify the measurement interval (unit: ms). The measurement interval is specified in milliseconds, but the value will be truncated to increments of 100 ms in the FB. If the processing time required for the FB is longer than the specified interval, measurements will be performed for the processing time.

Output Variables

Name	Variable name	Data type	Range	Description
ENO (May be omitted.)	ENO	BOOL		ON: FB processed normally. OFF: FB not processed or ended in an error.
Measurement Completed Flag	Done	BOOL		Turns ON for one cycle when the communications error count has been read for all specified slave nodes.
Error end	FB_NG	BOOL		Turns ON for one cycle when processing ends in an error.

Internal Variables

Internal variables are not output from the FB.

If the NG Flag from the FB turns ON, the following internal variables can be monitored to obtain information on the error.

Name	Variable name	Data type	Range	Description
FINS error code	FINS_ErrorCode	WORD		The FINS error code is output. A code of #0000 is output for a normal end. Refer to the <i>Related Manuals</i> for details on the error codes.
CompoWay/F error code	CompowayF_Error Code	WORD		Outputs the CompoWay/F error code. A code of #0000 is output for a normal end. See below for details on errors.

CompoWay/F Error Codes

Code	Contents	Meaning
#0000	Normal end	
#2203	Operation error	<ul style="list-style-type: none"> The operating mode is incorrect (execution is not possible in the current mode). An error occurred in EEPROM.

Version History

Version	Date	Contents
1.00	2004.12.	Original production

Note

This manual is a reference that explains the function block functions.

It does not explain the operational limitations of Units, components, or combinations of Units and components. Always read and understand the Operation Manuals for the system's Units and other components before using them.