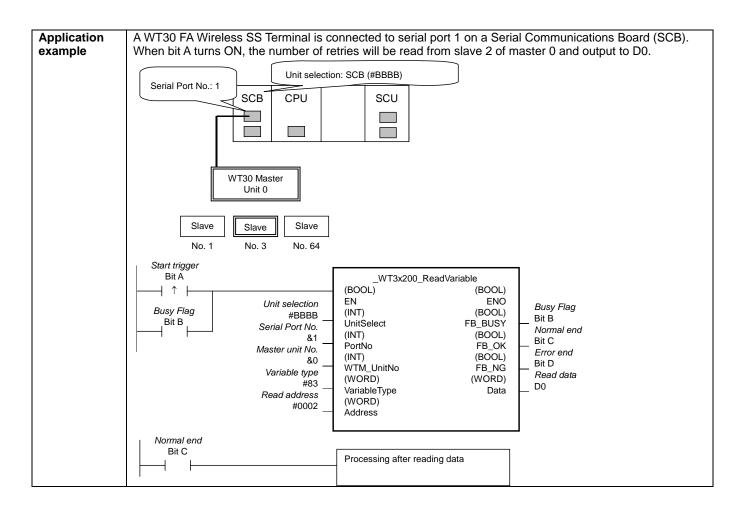
WT3х 200 Read Variable Area: _WT3х200_ReadVariable

Basic	Reads data from the varia	ble area of the master. This is a general-purpose function block used to specific				
function	details component parame	eters.				
Symbol	Start trigger 1					
		UnitSelect FB_BUSY BOOL) Normal end				
		PortNo FB_OK (BOOL) Error end				
		WTM_UnitNo FB_NG (WORD)				
		VariableType Data Nead data				
	Read	d address — (WORD) Address				
File name	Lib\FBL\omronlib\Wireless	Terminal\WT30_WT3x200_ReadVariable10.cxf				
Applicable		VT30-M01-FLK				
models		VT30-SID16/SMD16/SMD16-1				
		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				
	C	CP1L (except 10 points CPU)				
		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				
	Units/Boards	53 TW-30B2 T-V T and C3 TW-30B4 T-V T Offic Version 1.2 of Higher				
		/ersion 5.0 or higher				
Conditions	WT30 FA Wireless SS Ter					
for usage	 I his function block ca mode. 	in be used only in RUN mode. This function block cannot be used in TEST or SET				
	Communications Settings					
	The communications settings of the serial port must be the same as those of the WT30 FA Wireless SS					
	Terminal.					
	 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.					
	CPU Unit Settings	tings for Communications Instructions in FBs				
	•	ruction Response Timeout Time (default: 2 s)				
	Number of Retries (de					
	Shared Resources					
Formation	Communications ports (internal logical ports) When the start trigger turns ON, one element is read from the specified <i>Variable Type</i> and <i>Read Address</i> . Any					
Function description		memory area by specifying detailed parameters.				
FB	The FB is processed over multiple cycles. The FB_BUSY output variable can be used to check whether					
precautions	the FB is being processed.					
	 FB_OK or FB_NG will detect the end of FB r 	I be turned ON for one cycle only after processing is completed. Use these flags to				
	■ Timing Chart	brocessing.				
	Start trigger	ON OFF				
	D El (ED DIJO)()					
	Busy Flag (FB_BUSY)	ON OFF				
	Normal End (FB_OK) or Error End (FB_NG)	ON OFF				
	Read data (Data)					
		The value that was read is stored.				
EN input	Connect EN to an OR bety	ween an upwardly differentiated condition for the start trigger and the FB_BUSY				
condition	output from the FB.					
Restrictions		dly differentiated condition for EN.				
Input variables	If the input variables a	are out of range, the ENO Flag will turn OFF and the FB will not be processed.				
Output	The Readdata is set v	when the Normal End flag turns ON.				
variables	 This FB requires mult 	iple cycles to process. Always connect an OR including the FB_BUSY output				
	variable to the EN inp	out variable to ensure that the FB is processed to completion (see <i>Symbol</i>).				
	 Do not turn the FB_BI 	USY output variable ON or OFF outside the FB.				



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.
Serial Port No.	PortNo	INT	&1	&1 to &2	Only serial port 2 of CP1H/CP1L M-type
					CPU unit is possible to use this FB.
					■ Connected to CPU Unit Unit selection #FFFF
					Serial port No. Not accessed. (CP1H/CP1L-M: Serial Port2 CP1L-L14/20: Serial Port1)
					■ Connected to Serial Communication Board(SCB) Unit selection #BBBB Serial port No. &1: Serial Port 1 &2: Serial Port 2
					■ Connected to Serial Communication Unit(SCU) Unit selection SCU Unit No. (&0 to &15) Serial port No. &1: Serial Port 1 &2: Serial Port 2
Master unit No.	WTM_UnitNo	INT	&0	&0 to &99	Specify the unit number of the master.
Variable type	VariableType	WORD	#0		Specify the variable type.
7.	7.				Refer to Variable Types and Addresses for
					details on variable types.
Read address	Address	WORD	#0		Specify the address to write. Refer to Variable Types and Addresses for details on addresses.

Output Variables

Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		ON: FB processed normally.
(May be omitted.)				OFF: FB not processed or ended in an error.
Busy Flag	FB_BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	FB_OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	FB_NG	BOOL		Turns ON for one cycle when processing ends in an error.
Read data	Data	WORD		Outputs the read data. Refer to Variable Types and Addresses for details on read data.

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.

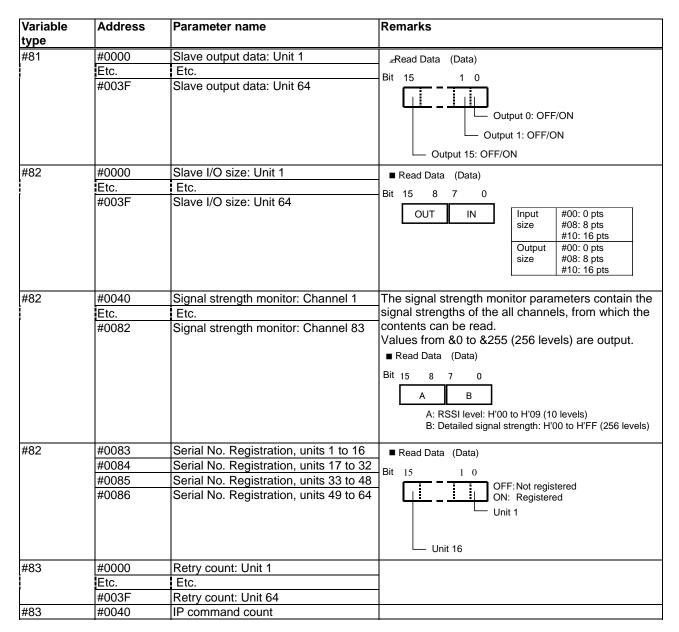
Name	Variable name	Data type	Range	Description
FINS error code	FINS_ErrorCode	WORD		The FINS error code is output. A code of #0000 is output for a normal end. Refer to the <i>Related Manuals</i> for details on the error codes.
CompoWay/F error code	CompowayF_Error Code	WORD		Outputs the CompoWay/F error 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	
#1101	Parameter error	The value of the variable type is illegal.
#1103	Address error	The read address is illegal.
#2203	Operation error	 The operating mode is incorrect (execution is not possible in the current mode). An error occurred in EEPROM.

■ Variable Types and Addresses

Variable type	Address	Parameter name	Remarks
#80	#0000	Slave participation information, units 1 to 16	Slave participation information can be read using the Check Slave Participation FB.
	#0001	Slave participation information, units 17 to 32	∠Read Data (Data)
	#0002	Slave participation information, units 33 to 48	Bit 15
	#0003	Slave participation information, units 49 to 64	Unit 1 Unit 1
#80	#0004	Slave input data: Unit 1	The Read Input Data FB can be use to read slave
#00	Etc.	Etc.	input data.
	#0043	Slave input data: Unit 64	⊮Read Data (Data)
			Bit 15 1 0 Input 0: OFF/ON Input 1: OFF/ON
			Input 15: OFF/ON
#80	#0044 Etc.	Slave status: Unit 1 Etc.	The Read Slave Status FB can be use to read slave status.
	#0083	Slave status: Unit 64	Read Data (Data)
#90	#0094	Communications array county Unit 1	Bit 15 9 7 1 0 Verification error: Serial No. discrepancy Verification error: I/O size discrepancy Routed communications in progress Serial No. registration
#80 	#0084 Etc.	Communications error count: Unit 1 Etc.	The Read Communications Error Count FB can be use to read the error count.
	#00C3	Communications error count: Unit 64	add to road the orior dodni.
#80	#00C4	Receiving signal strength: Unit 1	■ Read Data (Data)
	Etc.	Etc.	` <i>`</i>
	#0103	Receiving signal strength: Unit 64	A: RSSI level: H'00 to H'09 (10 levels) B: Detailed signal strength: H'00 to H'FF (256 levels)
#80	#0104	Current frequency	The Read Frequency FB can be use to read the frequency currently being used.
#80	#0105	Communications cycle time	The Read Communications Cycle Time FB can be use to read the cycle time.
#80	#0106	Slave routing information, units 1 to 16	The Read Slave Routing Information FB can be use
	#0107	Slave routing information, units 17 to 32	to read routing information. «Read Data (Data)
	#0108	Slave routing information, units 33 to 48	Bit 15 1 0
	#0109	Slave routing information, units 49 to 64	OFF:No routing ON: Routing Unit 1 Unit 2 Unit 16



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.