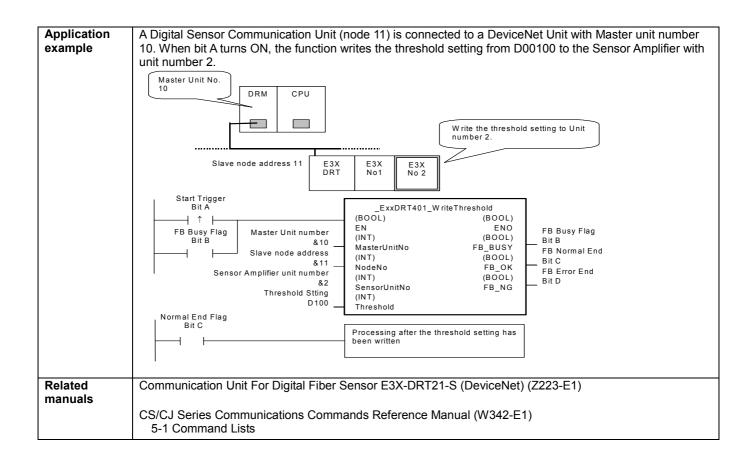
Write Threshold Setting: _ExxDRT401_WriteThreshold

Basic function	Writes the threshold s	etting to a Dig	jital Type Sensor in t	he DeviceNet	t network.	
Symbol	Start Trigger Busy Flag Master Unit number Slave node address Sensor Amplifier unit number		_ExxDRT401_Write (BOOL) EN (INT) MasterUnitNo (INT) NodeNo (INT) SensorUnitNo (INT)	eThreshold (BOOL) ENO (BOOL) FB_BUSY (BOOL) FB_OK (BOOL) FB_NG	FB Busy Flag FB Normal End FB Error End	
		reshold setting	Threshold			
File name	Lib\FBL\omronlib\Digi				reshold10.cxf	
Applicable models	Applicable Master Units Applicable Slave Units	E3X-DRT21-				
	Applicable Sensor Amplifiers	E3C Series: E2C Series:	E3C-LDA two-outpu E2C-EDA two-outpu	t models and it models and	V-S, and E3X-DARM-S E3C-LDA input models E2C-EDA input models	
	CPU Unit	CJ1*-CPU**I	H Unit version 3.0 H Unit version 3.0 * Unit version 3.0 c	or higher		
	CX-Programmer	Version 5.0 c	or higher	-		
Function description FB precautions	 If a Mobile Console is connected when the power is turned ON, the function cannot be used because communications cannot be established with the Sensor. The Sensor must be in RUN mode. The function cannot be used when the Sensor is in another mode, i.e., SET mode. CPU Unit Settings PLC Setup: Shared Settings for Communications Instructions in FBs DeviceNet Response Timeout Time (default: 2 s) A Timeout time of 10 s or higher is recommended. Number of retries (default: 0) Shared Resources Communications ports (internal logical ports) Other Communications must be within one network and cannot cross to another network. Writes the threshold setting to the Sensor Amplifier in the DeviceNet network with the specified Master Unit number, Slave node address, and Sensor Amplifier unit number. The FB is processed over multiple cycles. The FB_BUSY output variable can be used to check whether the FB is being processed. FB_OK or FB_NG will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing. Timing Chart Start Trigger ON OFF FB Busy Flag (FB_BUSY) ON OFF 					
	FB Normal End (FB_ FB Error End (FB_NG)				mal End Flag goes ON when the results of ation are reflected in the Sensor Amplifier.	
EN input		between an u	upwardly differentiate	ed condition for	or the start trigger and the FB_BUSY	
Restrictions Input variables	 output from the FB. 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. 					
Output variables	 This FB requires multiple cycles to process. Always connect an OR including the FB_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 FB_BUSY output variable ON or OFF outside the FB. 					



Variable Tables Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started 0 (OFF): FB not started.
Master Unit No.	MasterUnitNo	INT	&0	&0 to &15 #0 to #F	Specify the unit number of the DeviceNet Unit.
Slave node address	NodeNo	INT	&0	&0 to &63	Specify the node address of the slave.
Sensor Amplifier unit number	SensorUnitNo	INT	&1	&1 to &13 or &1 to &16	Depending on the communication mode setting, the maximum number of connectable Units is either 13 or 16 Units. Specify a unit number within the allowed range. Refer to the <i>Related Manuals</i> for details.
Threshold Setting	Threshold	INT	&0	Depends on the Sensor Amplifier	Specifies the threshold setting to be written to the Sensor Amplifier. Please specify it by the one's complement expression for a minus data.

Output Variables

Output variables				
Name	Variable name	Data type	Range	Description
ENO	ENO	BOOL		1 (ON): FB processed normally.
(May be omitted.)				0 (OFF): FB not processed or ended in an error.
FB Busy Flag	FB_BUSY	BOOL		Automatically turns OFF when processing is
				completed.
FB Normal End	FB_OK	BOOL		Turns ON for one cycle when processing ends
				normally.
FB 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 FB NG Flag 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.
Explicit message error code	Explicit_ErrorCode	WORD		Outputs the explicit message error code. A code of #0000 is output for a normal end. Refer to the <i>Related Manuals</i> for details on the error codes.

Explicit Error Code Details

Explicit Error Gode Details			
Code	Contents	Meaning	
#0000	Normal end		
#16FF	No Sensor Amplifier	There is no Sensor Amplifier with the specified unit number.	
#0CFF	Not executable	The specified command cannot be executed.	
		A Mobile Console is connected.	
		There is an error in communications with the Sensor Amplifier.	
		The Sensor Amplifier is in an operation mode other than RUN mode.	
		The FB was executed for a Sensor Amplifier that is not supported.	
#0EFF	Not supported.	The specified write command is not supported.	

Version History

Version	Date	Contents
1.00	2005.4.	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.