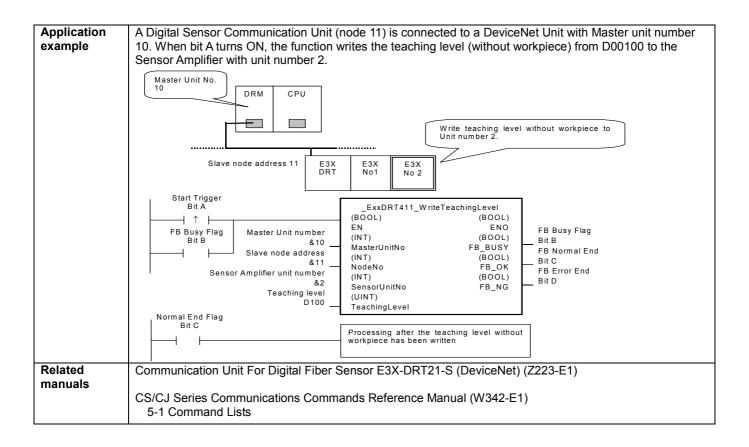
ExxDRTWrite Teaching Level without Work Piece:411_ExxDRT411_WriteTeachingLevel

Basic function	Writes the teaching level to a Digital Type Sensor in the DeviceNet network.				
Symbol	Start Trigger		_ExxDRT411_Write	TeachingLevel	
			(BOOL)	(BOOL)	
	Busy Flag Most		EN (INT)	ENO (BOOL)	
	Mast	er Unit number	MasterUnitNo	FB_BUSY	FB Busy Flag
	Slave	e node address	(INT) NodeNo	(BOOL) FB_OK	FB Normal End
	Sensor Amplif	ier unit number	(INT) SensorUnitNo	(BOOL) FB_NG	FB Error End
		Teaching level	(UINT) TeachingLevel		
File name	Lib\FBL\omronlib\Digi	talTvpeSensor	\ExxDRT\ ExxDRT	411 WriteTea	chinaLevel10.cxf
Applicable	Applicable Master		21(-V1) and CJ1W-		<u>v</u>
models	Units				
	Applicable Slave Units	E3X-DRT21-	.5		
	Applicable Sensor				/-S, and E3X-DARM-S
	Amplifiers				E3C-LDA input models
	CPU Unit		H Unit version 3.0		E2C-EDA input models
		CJ1*-CPU**H			
		CJ1M-CPU**			
		CP1H	· · · ·		
Conditions	CX-Programmer Sensor	Version 5.0 c	or higher		
for usage		e is connected	l when the nower is	turned ON the	e function cannot be used because
ior dougo			plished with the Ser		
					when the Sensor is in another mode,
	i.e., SET mode.				
	CPU Unit Settings				
	PLC Setup: Shared			tructions in FB	S
	DeviceNet Respon A Timeout time of				
	A Timeout time of 10 s or higher is recommended.Number of retries (default: 0)				
	Shared Resources				
	Communications ports (internal logical ports)				
	Other				
Function	 Communications must be within one network and cannot cross to another network. Writes the teaching level to the Sensor Amplifier in the DeviceNet network with the specified Master Unit 				
description	number, Slave node address, and Sensor Amplifier unit number.				
FB	• The FB is processed over multiple cycles. The FB_BUSY output variable can be used to check whether				
precautions	the FB is being pro				
				nly after proce	ssing is completed. Use these flags to
	detect the end of FB processing. ■ Timing Chart				
	Start Trigger	ON			
		OFF			
	FB Busy Flag (FB_BU	SY) ON OFF			
			_		
	FB Normal End (FB_ FB Error End (FB_NG)		Γ		
				_	
				The FB Norr	nal End Flag goes ON when the results of
			_		ation are reflected in the Sensor Amplifier.
EN input	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the FB_BUSY				
condition Restrictions	output from the FB.				
Input	 Always use an upwardly differentiated condition for EN. If the input variables are out of range, the ENO Eleg will turn OEE and the EP will not be processed. 				
variables	• If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.				
Output variables					R including the FB_BUSY output
variabies					d to completion (see <i>Symbol</i>). =B
	 Do not turn the FB_BUSY output variable ON or OFF outside the FB. 				



Variable Tables

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.
Teaching Level	TeachingLevel	UINT	&0	&0 to &99	Specifies the teaching level to be written to the Sensor Amplifier.

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

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.