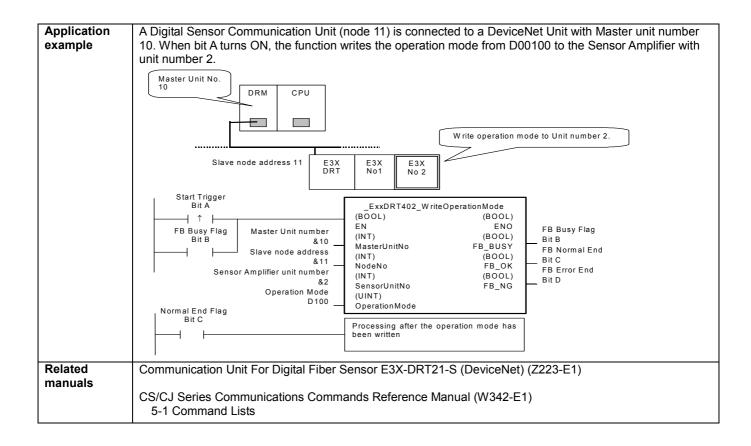
# Write Operation Mode Setting: \_ExxDRT402\_WriteOperationMode

Basic function	Writes the operation n	ode to a Digital	Type Sensor in the	DeviceNet	network.	
Symbol		er Unit number(I	_ExxDRT402_WriteOper BOOL) EN INT) JasterUnitNo	(BOOL) ENO (BOOL) FB_BUSY	FB Busy Flag	
	Sensor Amplifi	er unit number (I	INT) NodeNo INT) SensorUnitNo UINT)	(BOOL) FB_OK (BOOL) FB_NG	FB Normal End FB Error End	
	C		OperationMode			
File name	Lib\FBL\omronlib\DigitalTypeSensor\ExxDRT\_ExxDRT402_WriteOperationMode10.cxf					
Applicable models	Applicable Master   CS1W-DRM21(-V1) and CJ1W-DRM21   Units					
ouo.o	Applicable Slave Units	E3X-DRT21-S				
	Applicable Sensor Amplifiers	E3C Series: E3	X-MDA and E3X-DA C-LDA two-output r C-EDA two-output r	nodels		
	CPU Unit	CS1*-CPU**H CJ1*-CPU**H	Unit version 3.0 or Unit version 3.0 or Unit version 3.0 or	higher higher		
	CX-Programmer	CP1H Version 5.0 or h	nigher			
Conditions for usage	Sensor	io connected	han the newer is to	rnod ONI 4L	ne function cannot be used because	
	<ul> <li>communications cannot be established with the Sensor.</li> <li>The Sensor must be in RUN mode. The function cannot be used when the Sensor is in another mode, i.e., SET mode.</li> <li>CPU Unit Settings PLC Setup: Shared Settings for Communications Instructions in FBs</li> <li>DeviceNet Response Timeout Time (default: 2 s) A Timeout time of 10 s or higher is recommended.</li> <li>Number of retries (default: 0)</li> <li>Shared Resources</li> <li>Communications ports (internal logical ports)</li> <li>Other</li> <li>Communications must be within one network and cannot cross to another network.</li> </ul>					
Function description					etwork with the specified Master Unit	
FB precautions	The FB is processed over multiple cycles. The FB_BUSY output variable can be used to check variable.					
	Start Trigger	ON OFF		_		
	FB Busy Flag (FB_BUS	Y) ON OFF		-		
	FB Normal End (FB_NG)	OK) or ON OFF		The FB Nor	rmal End Flag goes ON when the results of	
					ration are reflected in the Sensor Amplifier.	
EN input condition	Connect EN to an OR output from the FB.	between an upw	vardly differentiated	condition for	or the start trigger and the FB_BUSY	
Restrictions Input variables	Always use an upv     If the input variable	s are out of rang	ge, the ENO Flag wi	ill turn OFF	and the FB will not be processed.	
Output variables	<ul> <li>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>).</li> <li>Do not turn the FB BUSY output variable ON or OFF outside the FB.</li> </ul>					



# 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.
Operating mode	OperationMode	UINT	&0	&0 to &1	Specifies the operation mode to be written to the Sensor Amplifier. With the E3X and E3C, &0 indicates L/ON and &1 indicates D/ON. With the E2C, &0 indicates NO and &1 indicates NC.

**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 dode 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.