

CLK-002	Start Data Links: _CLK001_LINK_RunDatalink						
<b>Basic function</b>	Starts the data links.						
<b>Symbol</b>							
<b>File name</b>	Lib\FBL\omronlib\PLC\CLK\_CLK001_LINK_RunDatalink10.cxf						
<b>Applicable models</b>	<table border="1"> <tr> <td>Controller Unit</td> <td>CS1W-CLK21-V1, CS1W-CLK12-V1, CS1W-CLK52-V1 CJ1W-CLK21-V1</td> </tr> <tr> <td>CPU Unit</td> <td>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</td> </tr> <tr> <td>CX-Programmer</td> <td>Version 5.0 or higher</td> </tr> </table>	Controller Unit	CS1W-CLK21-V1, CS1W-CLK12-V1, CS1W-CLK52-V1 CJ1W-CLK21-V1	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	CX-Programmer	Version 5.0 or higher
Controller Unit	CS1W-CLK21-V1, CS1W-CLK12-V1, CS1W-CLK52-V1 CJ1W-CLK21-V1						
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						
CX-Programmer	Version 5.0 or higher						
<b>Conditions for usage</b>	Other <ul style="list-style-type: none"> <li>Communications must be within one network and cannot cross to another network.</li> </ul>						
<b>Function description</b>	When the Start Trigger turns ON, the data links are started for the Controller Link Unit specified by the <i>UnitNo.</i> If the data links are started normally, the OK Flag will turn ON for one cycle. If they cannot be started for any reason, the NG Flag will turn ON for one cycle.						
<b>FB precautions</b>	<ul style="list-style-type: none"> <li>The FB is processed over multiple cycles. The BUSY output variable can be used to check whether the FB is being processed.</li> <li>OK or NB will be turned ON for one cycle only after processing is completed. Use these flags to detect the end of FB processing.</li> </ul> <p>Timechart</p>						
<b>EN input condition</b>	Connect EN to an OR between an upwardly differentiated condition for the start trigger and the BUSY output from the FB.						
<b>Restrictions Input variables</b>	<ul style="list-style-type: none"> <li>Always use an upwardly differentiated condition for EN.</li> <li>If the input variables are out of range, the ENO Flag will turn OFF and the FB will not be processed.</li> </ul>						
<b>Output variables</b>	<ul style="list-style-type: none"> <li>This FB requires multiple cycles to process. Always connect an OR including the BUSY output variable to the EN input variable to ensure that the FB is processed to completion (see Symbol).</li> <li>Do not turn the BUSY output variable ON or OFF outside the FB.</li> </ul>						
<b>Application example</b>	When bit A turns ON, the data links are started for the Unit with unit number 10. Bit C will turn ON when starting the data links has been completed.						

## ■ Variable Tables

### Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB started. 0 (OFF): FB not started.
Unit No.	UnitNo	INT	&0	&0 to &15	
Local node address	NodeNo	INT	&1	&1 to &62	

### Output Variables

Name	Variable name	Data type	Range	Description
ENO (May be omitted.)	ENO	BOOL		1 (ON): FB processed normally. 0 (OFF): FB not processed or ended in an error.
Busy Flag	BUSY	BOOL		Automatically turns OFF when processing is completed.
Normal end	OK	BOOL		Turns ON for one cycle when processing ends normally.
Error end	NG	BOOL		Turns ON for one cycle when processing ends in an error.

### Version History

Version	Date	Contents
1.00	2004.6.	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.