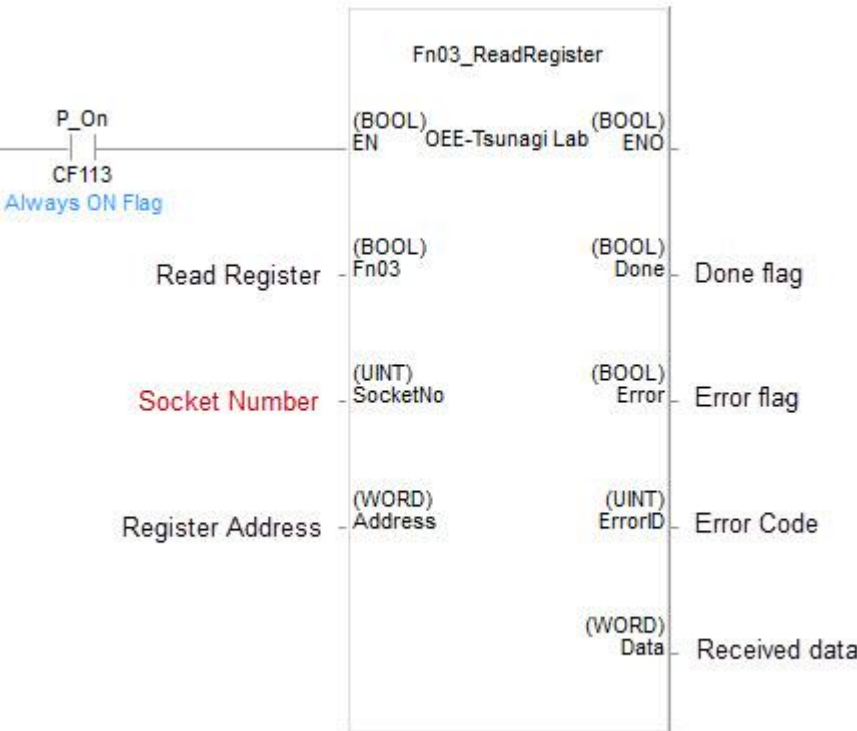


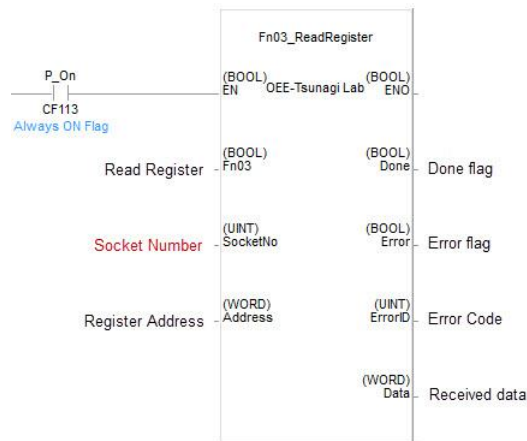
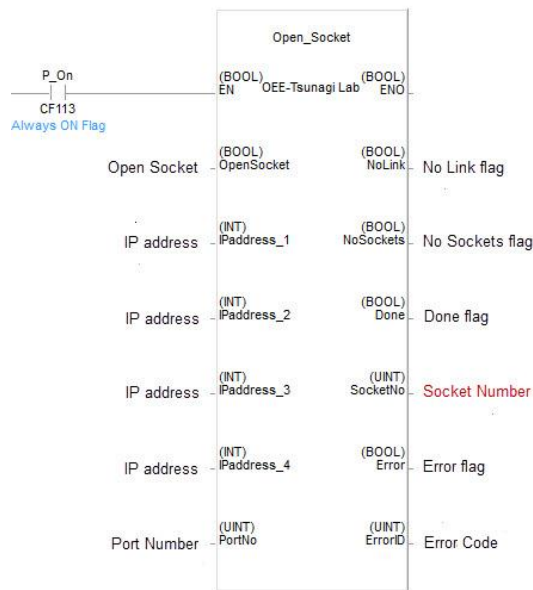
Fn03_ReadRegister	Fn03 Read Register (Modbus / TCP)
Basic function	Request for Read One Register
Symbol	
File name	Fn03_ReadRegister.cxf
Applicable models	CP1L-EL or CP1L-EM
Conditions for usage	CX-Programmer Version 9.40 or higher. The following specifications can be used for FB Auto Allocation: <ul style="list-style-type: none"> - CIO 0000 to 6143 - HR H000 to H511 - AR A448 to A959 - D00000 to D09999 for the CP1L-EL - D00000 to D32767 for the CP1L-EM
Function description	Fn03_ReadRegister Function Block read one Register conform the address variable and Outputs the result in the data variable Output.
FB precautions	
EN input condition	<ul style="list-style-type: none"> • Connect EN to condition for the FB to Work. • Fn03 send the Request for Read the Address. • Socket Number 1 to 3. • Register Address.
Restrictions Input variables	<ul style="list-style-type: none"> • Socket Number 1 to 3.
Output variables	<ul style="list-style-type: none"> • This FB requires multiple cycles to process. • The status of the Outputs bits are Reset if the Fn03 bit is OFF. Except the Data Output.

Application example

Fn03_ReadRegister Function Block is designed for use with the other Function Blocks. The Socket Number Output can be used for the Socket Number Input used by :

- Open_Socket
- Fn04_ReadInputRegister
- Fn05_ForceSingleCoil
- Fn06_WriteRegister
- Close_Socket

Example:



■ Variable Tables

Input Variables

Name	Variable name	Data type	Default	Range	Description
EN	EN	BOOL			1 (ON): FB ON. 0 (OFF): FB OFF.
Read Register	Fn03	BOOL			Start request for Read Register
Socket Number	SocketNo	UINT		&1 to &3	&1 to &3
Address	Address	WORD			Register Address to Read

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.
Done	Done	BOOL		Done
Error	Error	BOOL		Error
Error ID	ErrorID	UINT		Error code: TCP/UDP Error Codes Ethernet Units Construction of Networks Operation Manual (W420) 7-3 Command/Response Reference FINS Error Codes Communications Commands Reference Manual (W342) 5-1-3 Error Codes CP1L-EL/EM CPU Unit Operation Manual (W516) 12-1 Troubleshooting
Data	Data	WORD		Contents of Register

■ Version History

Version	Date	Contents
1.00	21-03-2012	Original production