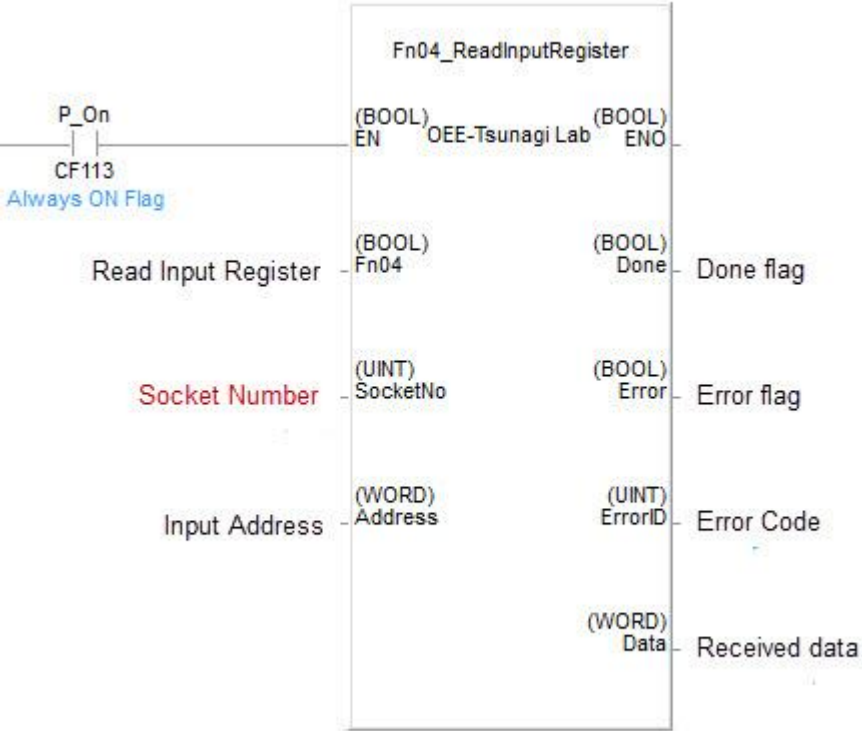


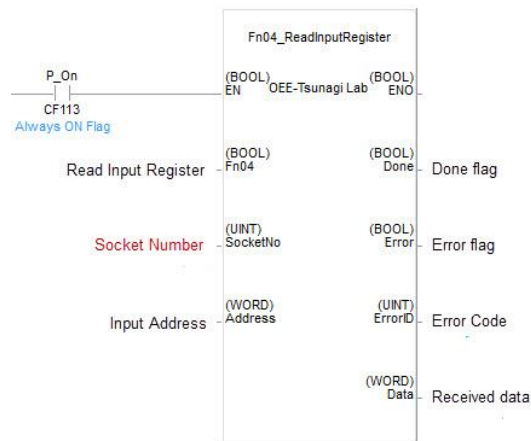
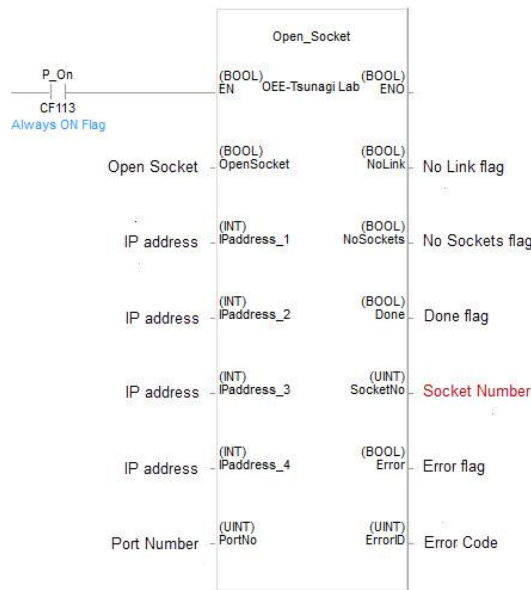
| Fn04_Read InputRegister | Fn04 Read Input Register (Modbus / TCP) |
|-------------------------------------|--|
| Basic function | Request for Read One Input Register |
| Symbol |  |
| File name | Fn04_ReadInputRegister.cxf |
| Applicable models | CP1L-EL or CP1L-EM |
| Conditions for usage | CX-Programmer 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 | Fn04_ReadInputRegister Function Block read one Input 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. • Fn04 send the Request for Read the Input 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 Fn04 bit is OFF. Except the Data Output. |

Application example

Fn04_ReadInputRegister 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
- Fn03_ReadRegister
- 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 | Fn04 | BOOL | | | Start request for Read Input 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 |