
V21.3.4

# Drivers

## eScada.Drivers.Mitsubishi.SLMP1E

# eScada.Drivers.OmronFinsCom

( Mitsubishi SLMP1E Protocol )

**OS availability**
Windows, Linux, RaspBian

**Atomic data type**
bit or 16, 32 bit Word oriented protocol.

**Hardware and documentation reference**
MELSEC iQ-F - FX5 User's Manual (SLMP)

**Parameters available in every section**

| | | |
|---|---|---|
| Channel: | none | |
| Device: | IP address | It can be IPV4<br>Multiple addresses can be expressed separated using , (comma)<br>e.g. 192.168.1.10,192.168.1.11 |
| | TCP Port | A valid TCP port number. |
| | Protocol type | 0=Binary |
| | Station number | (HEX value) |
| | Monitoring timer | |
| | Reconnect timeout [ms] | Waiting time before a reconnection after COMM break-down |
| | Response timeout [ms] | Timeout interval used to wait for a response. |
| Group: | none | |
| Tag: | none | |
| Group: | none | |
| Tag: | none | |

**Remarks for devices**

The following attributes can be expressed for every device.

| | |
|---|---|
| Bytes order actions | None, Swap bytes (little endians ↔ big endians adjustment) |
| String actions | None, Swap bytes in words |

**Implemented devices**

The user must verify with its PLC reference manual whether the desired device is addressable or not.

| **Booleans** | | Single element | HMI Array |
|---|---|---|---|
| X | Input | X | X |
| Y | Output | X | X |
| M | Internal Relay | X | X |
| S | Step Relay | X | X |
| TS | Timer contact | X | X |
| CS | Counter contact | X | X |
| LCS | Long Counter contact | X | X |
| SM | Special relay | X | X |
| L | Latching Relay | X | X |
| F | Annunciator | X | X |
| B | Link Relay | X | X |
| TC | Timer coil | X | X |
| SS | Retentive Timer contact | X | X |
| SC | Retentive Timer coil | X | X |
| CC | Counter coil | X | X |
| LCC | Long Counter coil | X | X |
| SB | Link special relay | X | X |
| LX | Link Input | X | X |
| LY | Link Output | X | X |

| **Word (16 bit)** | | Single element | HMI Array |
|---|---|---|---|
| D | Data register | X | X |
| TN | Timer current value | X | X |
| CN | Counter current value | X | X |
| R | File register | X | X |
| SD | Special register | X | X |
| W | Link register | X | X |
| SN | Retentive Timer current value | X | X |
| SW | Link special register | X | X |
| Z | Index register | X | X |

| **DWord (32 bit)** | | Single element | HMI Array |
|---|---|---|---|
| LCN | Long Counter coil | X | X |
| LZ | Long Index register | X | X |

Address example:
D120, M1200, CN10, ecc ...
Expressed using base 10 numbers

**Addressing**

| Variable type | Type | Device type | Items |
|---|---|---|---|
| Boolean<br>Items for this type regarding 16 bit words must be declared as multiple of 16 | | | |
| Single bit | Bit | Booleans, Word 16 bit | (C) |
| Byte<br>The number of items used declaring TAGs, must be a multiple of 2 | | | |
| Unsigned 8 bit | UInt8 | Word 16 bit | (C) |
| Signed 8 bit | Int8 | | |
| 16 bit | | | |
| Unsigned integer 16 bit | UInt16 | Word 16 bit | (C) |
| Signed integer 16 bit | Int16 | | |
| 32 bit | | | |
| Unsigned integer 32 bit | UInt32 | Word 16 bit, DWord 32 bit | (C) |
| Signed integer 32 bit | Int32 | | |
| Single precision 32 bit - ( IEEE 754 ) | Float | | |
| 64 bit | | | |
| Unsigned integer 64 bit | UInt64 | Word 16 bit | (C) |
| Signed integer 64 bit | Int64 | | |
| Double precision 64 bit - ( IEEE 754 ) | Double | | |
| Strings<br>The string length used declaring TAGs, must be a multiple of 2<br>String bytes can be interpreted as ASCII, UTF-7, UTF-8, UTF-16 or UTF-32 encoding | | | |
| Array of bytes | String | Word 16 bit | (A, C) |
| Array of bytes. (Siemens S7)<br>Array of bytes. (AllenBradley style) | S7String<br>ABString | Not allowed | |
| (A) It depends on the strings length: | | | |
| (C) It depends on PLC model. The best way is to try with the maximum items you need.<br>Please refer to your PLC model documentation and its protocol specification | | | |

**S7 strings format**
Not allowed

**AB Strings format**
Not allowed

**Consecutive items**
The number of consecutive read/write items depends on the PLC model.