Mitsubishi MELSEC FX Connector

Mitsubishi FX Series and compatible devices

- Name: **MelsecFX**
- Version: 1.0.1.0
- Protocol: Melsec Q 1E frame
- Interface: TCP/IP
- Runtime: Multiplatform
- Configuration:
  - Devices / Protocols

Overview
Supported Operands
Channel Configuration
Node Configuration
Points Configuration
Driver Revision History

Overview

MelsecFX communication driver implements communication with Mitsubishi FX Series PLCs using Melsec Q 1E frame. It operates as a Master on TCP /IP networks. The communication blocks are dynamically created according to the pooling cycle defined on the AccessType for each point.

Supported Operands

Operand	Read	Write	Data Type	Address size
D - Data register	**Yes**	**Yes**	Short	2 bytes
W - Link register	**Yes**	**Yes**	Short	2 bytes
R - File register	**Yes**	**Yes**	Short	2 bytes
TN – Timer Current value	**Yes**	**Yes**	Short	2 bytes
TS – Timer Contact	**Yes**	**Yes**	Bit	1 bit
TC – Timer Coil	**Yes**	**Yes**	Bit	1 bit
CN – Counter Current value	**Yes**	**Yes**	Short	2 bytes
CS – Counter Contact	**Yes**	**Yes**	Bit	1 bit
CC – Counter Coil	**Yes**	**Yes**	Bit	1 bit
X - Input relay	**Yes**	**Yes**	Bit	1 bit
Y - Output relay	**Yes**	**Yes**	Bit	1 bit
M - Internal relay	**Yes**	**Yes**	Bit	1 bit
B - Link relay	**Yes**	**Yes**	Bit	1 bit
F - Annunciator	**Yes**	**Yes**	Bit	1 bit

Channel Configuration

Protocol Options

- **Maximum size of blocks:** Defines the maximum of addresses in a read block.

Settings

TCP/IP:

- **NodeConnections**: Defines the maximum number of parallel requests that will be sent to each node (asynchronous communication)

Node Configuration

Station Configuration

TCP/IP:

- Station syntax: ***<IP address> ; <Port number>***

Where :

- ***<IP address>***: IP address of the slave device in the modbus network
- ***<Port number>***: TCP port where the slave device is listening (default is **5551**)

E.g.: ***192.168.1.1 ; 5551***

Points Configuration

The syntax for the MelsecFX communication points is: ***<Operand> <Address>***

Where :

- ***<Operand>***: Represents the Device Memory :
- ***<Address>***: Address number

Operand
D - Data register
W - Link register
R - File register
TN – Timer Current value
TS – Timer Contact
TC – Timer Coil
CN – Counter Current value
CS – Counter Contact
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X - Input relay
Y - Output relay
M - Internal relay
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F - Annunciator

Driver Revision History

MelsecFX Revision History	
Version	**Notes**
1.0	Initial release on new documentation standards.

In this section...
