Mitsubishi MELSEC A Connector

Mitsubishi A Series and compatible devices

- Name: **MelsecA**
- Version: 1.0.0.0
- Protocol: Melsec A
- Interface: Standard Serial Port
- Runtime: .Net 4.8 (Multiplatform)
- Configuration:
  - Devices / Protocols

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Overview

MelsecA communication driver implements communication with Mitsubishi A Series PLCs using Melsec A protocol.

Communication Driver Information	
Driver name	MelsecA
Assembly Name	T.ProtocolDriver.MelsecA
Assembly Version	1.0
Available for Linux	True
PLC types supported	Mitsubishi MelsecA Series PLCs and compatibles
Manufacturer	Mitsubishi
Interface	Serial and MultiSerial

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
D9 - Special 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
L - Latch relay	**Yes**	**Yes**	Bit	1 bit
B - Link relay	**Yes**	**Yes**	Bit	1 bit
F - Annunciator	**Yes**	**Yes**	Bit	1 bit
M9 - Special Relay	**Yes**	**Yes**	Bit	1 bit

Channels Configuration

Protocol Options

- **BlockSize:** Defines the maximum of addresses in a read block. Default is 255.
- **Format:** Available options: Format1, Format2, Format3 and Format4.

Settings

- **Serial and MultiSerial channels:**

  Default configuration:

  DataBits: 8.

  StopBits: 1 if parity is used, 2 if no parity.
  Set the other fields according to your Serial or MultiSerial port configuration.

Nodes Configuration

Station Configuration

SlaveId: Set this field with the address of the slave device in the network. They can be addressed from 1 to 247 for serial nodes. The address 0 is used for the broadcast.

- **Serial channels:**

Station syntax: ***<SlaveId>***
Ex: 1

- **MultiSerial channels:**

Station syntax: ***<ComPort>;<SlaveId>***

Where : <ComPort> = COM Port of the slave device in the network (default is com1).
Ex: com1;1

Points Configuration

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

Where :

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

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
D9 - Special 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

L - Latch relay	**Yes**	**Yes**	Bit	1 bit
B - Link relay	**Yes**	**Yes**	Bit	1 bit
F - Annunciator	**Yes**	**Yes**	Bit	1 bit
M9 - Special Relay	**Yes**	**Yes**	Bit	1 bit

Driver Revision History

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

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