Mitsubishi - Q Series devices

The MitsubishiQ driver implements communication with Mitsubishi Series Q devices on TCP/IP networks. The communications blocks are dynamically created according to the pooling cycle defined on the AccessType for each Device Point.

Summary Information

Communication Driver Name: MitsubishiQ

Current Version: 1.0.0.0

Implementation DLL: T.ProtocolDriver. MitsubishiQ.dll

Protocol: MELSEC
Interface: TCP/IP

PLC types supported: Mitsubishi Series Q devices

Multi-threading: User configurable

Max number of nodes: User defined

PC Hardware requirements: Standard PC Ethernet interface board

Channel Configuration

Protocol Options

BlockSize: Defines the maximum amount of items per group. The default value is 255

Format: Defines the MELSEC protocol format. Default value is 3E

Node Configuration

Station Configuration

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

Where:

- <IP address> = The IP address of the Mitsubishi device in the network
- <Port number> = The TCP port where the Mitsubishi device is listening (default is 5001)

E.g.: 192.168.1.101; 5001

Point Configuration

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

Where:

• < Operand > indicates the memory area in the Mitsubishi device:

Operand	Description
Χ	Input
Υ	Output

М	Internal relay	
L	Latch relay Link relay Annunciator Edge relay	
В		
F		
V		
SM	Special relay	
TS	Timer (contact)	
TC	Timer (coil)	
cs	Counter (contact)	
СС	Counter (coil)	
TN	Timer (present value)	
CN	Counter (present value)	
D	Data register File register Special register	
R		
SD		

• <Address> indicates that address that communicates.

E.g.: D500, Y05

Troubleshoot

The status of the driver's execution can be observed through the diagnostic tools, which are:

- Trace window
- Property WatchModule Information

The above tools indicate if the operations have succeeded or have failed. A status of 0 (zero) means communication is successful. Negative values indicate internal driver errors, and positive values indicate protocol error codes.

MitsubishiQ error codes:

Error	Name	Causes	Solutions
-203	INVALID COMMAND	Device returns error in the last command	Use the Trace window tools to save the log and send it to support