MitsubishiQ Communication Driver

This document has the specific information related to the driver configuration. For a generic explanation on Devices, Channels, Nodes and Points configuration, please refer to reference guide.

Contents

Section 1 – Summary Information

Communication Driver Name: MitsubishiQ

Current Version: 1.0.0.0

Implementation DLL: T.ProtocolDriver. MitsubishiQ.dll

Protocol: MELSEC

Interface: TCP/IP

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

PLC types supported: with Mitsubishi Serie Q devices.

Multi-threading: user configurable

Max number of nodes: user defined

PC Hardware requirements: Standard PC Ethernet interface board

Section 2 – 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.

Section 3 – Node Configuration

Station Configuration

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

Where :

       \<IP address\> IP address of the Mitsubishi device in the network

       \< Port number \> TCP port where the Mitsubishi device is listening (default is 5001)

E.g.: 192.168.1.101; 5001

Section 4 – Point Configuration

The syntax for the MitsubishiQ communication points is:

\<Operand\>\<Address\>

Where:

       \<Operand\> indicates the memory area into the Mitsubishi device:

Operand	Description
X	Input
Y	Output
M	Internal relay
L	Latch relay
B	Link relay
F	Annunciator
V	Edge relay
SM	Special relay
TS	Timer (contact)
TC	Timer (coil)
CS	Counter (contact)
CC	Counter (coil)
TN	Timer (present value)
CN	Counter (present value)
D	Data register
R	File register
SD	Special register

<Address> indicates address to communicate.

E.g.: D500, Y05

Section 5 – Troubleshoot

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

- Trace window

- Property Watch

- Module Information

The above tools indicate if the operations have succeeded or have failed where the status 0 (zero) means success. Negative values are internal error codes and positive values are 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.

Section 6 – Revision History

Revision	Description	Date
A	Initial Revision	July, 18th 2012