Siemens Communication Driver

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

Contents

Section 1 – Summary Information

Communication Driver Name: Siemens

Current Version: 2.2.2.0

Implementation DLL: T.ProtocolDriver. Siemens.dll

Third Party Libraries: AGL4DotNET.dll, AGLink40.dll and AGLink40_x64.dll.

Interface: TCP IP

PLC types supported: Devices S7 300/400/1200/1500

Manufacturer: Siemens

PC Hardware requirements: Ethernet board

Section 2 – Channel Configuration

Protocol Options

Device Number: Used for connection when there is more than one PLC in the network.

PLC Number: Slave PLC number

Section 3 – Node Configuration

Station Configuration

Station syntax: <IP Address> ; <Rack>; <Slot > ;<S7 Family>

Where :

<**IP Address**> = IP address of the slave device in the Siemens network

< **Rack** > = Rack of the device

<**Slot** > = Slot of the device

<**S7 Family**> = Model of the device. The options are:

- **300/400:** Support for PLC Siemens S7-300 and S7-400 Series.
- **1200:** Support for PLC Siemens S7-1200 and S7-1500 Series.

Section 4 – Point Configuration

Address

The syntax for the Siemens communication points are:

- ***<Type>:<Format><Address>.< Bit or String Length >***

For DataBlock type

- ***DB<DB Group>:<Format><Address>.<Bit or String Length>***

<Type> is the register type.

Valid values are: **M**=Flags, **T**=Timers, **C**=Counters, **I**=Inputs, **Q**=Outputs and **DB**=Data Blocks.

<DB Group> is the group number of the configured Data Block type.

<Address> is the device address.

<Format> is the format to treats the value from or to the device.

Valid values: **B**=Byte, **W**=Word, **DW**=Dword, **F**=Float, **ST**=String

<Bit or String Length > is the bit number. This parameter is optional. If you use the String type, it represents the String length.

Section 5 – Troubleshoot

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

- Trace window
- Property Watch
- Module Information

Status value of 0 (zero) means communication success. Negative values indicate internal driver error and positive values means protocol errors code.

Revision History

Revision	Description	Date
A	Initial Revision	*April* 2012
B	Implemented String (ST) type	*September* 2012
C	Updated S7 Family configuration	*July 2019*