

MLogic Tools

Overview:

This document provides an overview of what is included in MLogic Tools (MBTools). Details and installation instructions for each program can be found in their own respective documentation.

The MBTools package includes the following:

- MBProbe - A web based menu driven Modbus/TCP client. This provides an easy to use means of testing, troubleshooting, and commissioning Modbus/TCP field devices such as valves, sensors, and PLCs.
- MBAsyncServer - A simple Modbus/TCP server.
- PollMB - A command line Modbus/TCP client.
- PollWS - A command line client for a Modbus-like web service.
- SBProbe - Similar to MBProbe, but for SAIA Ether SBus.
- SBusServer - Similar to MBAsyncServer, but for SAIA Ether SBus.
- SBPoll - Similar to PollMB, but for SAIA Ether SBus.
- TMBCClient - A Modbus/TCP client for testing, troubleshooting, and commissioning Modbus/TCP field devices such as valves, sensors, and PLCs. This program is for MS Windows only, and is only present in the MS Windows version of the package.

MBProbe and SBProbe

MBProbe provides an interactive Modbus/TCP client with a web based user interface for testing, troubleshooting and commissioning. The user can connect with a Modbus/TCP server and read or write any data table address via a graphical web based interface.

SBProbe provides similar capability for the SAIA Ether SBus protocol.

MBProbe - Read Modbus Data - Mozilla Firefox

http://localhost:8080/readdata.html

MBProbe - Read Modbus Data MBProbe - Write Modbus Data MBProbe - Set Communicati... MBProbe - Help

MBProbe

Read Data Write Data Set Parameters Help

Read Modbus Data

Address Type / Address / Value	Address Type / Address / Value
Coil 1 1	None
Discrete Input 2 1	None
Holding Register 500 -32000	Coil 1234 1
Input Register 502 0	Coil -1 Invalid address
Holding Register 65000 32014	None
None	None
Input Register 65001 9999	Input Register 4321 3241
None	None
None	None
None	None
None	None

Read Data Read Data: Clear Page:

Done

MBAsyncServer and SBusServer

MBAsyncServer is a simple Modbus/TCP server with the following features:

- It can support multiple incoming connections.
- It supports the most commonly used Modbus server functions.
- All data is stored in a common data table.
- The IP port used is configurable.
- The data table is configurable.

Typical applications for MBAsyncServer are:

- To act as a proxy to allow two Modbus/TCP clients to communicate with each other.
- To test Modbus/TCP clients.
- To simulate field devices when developing applications which need to communicate using Modbus/TCP.

SBusServer provides equivalent capabilities for the SAIA Ether SBus protocol.

PollMB, PollWS and SBPoll

PollMB is a simple Modbus/TCP command line client. It can connect with a Modbus/TCP server and read or write any data table address. It also has a special mode which allows it to test the communications speed (throughput) of a server. PollMB can be used in situations where the user prefers a command line text client rather than the graphical interface provided by MBProbe.

PollWS is a simple client which is similar to PollMB, but supports the Modbus-like web service built into MBLogic.

SBPoll provides equivalent capabilities to PollMB for the SAIA Ether SBus protocol.

TMBClient

TMBClient is a Modbus/TCP client for testing, troubleshooting, and commissioning Modbus/TCP field devices such as valves, sensors, and PLCs. This program is for MS Windows only, and is only present in the MS Windows version of the package.



