

# Diagslave Modbus Slave Simulator



*diagslave* is a simple command line based Modbus slave simulator and test utility. *diagslave* is using the [FieldTalk™ Modbus driver](#).

Diagslave binaries are available for the following operating system platforms and architectures:

- Windows PCs
- Linux PCs
- Raspberry Pi, BeagleBoard and other ARM based Linux devices

Modbus Slave simulator

*diagslave* execution from command line

	<a href="#">diagslave-3.5.zip</a>
	<a href="#">diagslave-3.5.tgz</a>
<b>System Requirements</b>	<ul style="list-style-type: none"><li>• Windows (x86, x64)</li><li>• Linux (x86, x86_64, Arm64 Aarch64, Arm32 eabihf)</li></ul>
<b>License</b>	This program is free; you can use it and redistribute it under the terms of the accompanying <a href="#">License</a> document.

## Installation

### Windows

Download into a folder and extract the zip archive. The *diagslave.exe* command must be run from a Command Prompt:

```
win\diagslave -h
```

### Linux

Download into a folder. Then unpack the tarball:

```
tar xzf diagslave-3.2.tgz
```

The tarball contains multiple binaries for different CPU architectures. Run the version matching your system from the command line. Example for Raspberry Pi:

```
cd diagslave
linux_arm-eabihf/diagslave -h
```

## Usage

```
Usage: diagslave [OPTIONS] [SERIALPORT]
Arguments:
SERIALPORT    Serial port when using Modbus ASCII or Modbus RTU protocol
               COM1, COM2 ...           on Windows
               /dev/ttyS0, /dev/ttyS1 ... on Linux

General options:
-m ascii      Modbus ASCII protocol
-m rtu        Modbus RTU protocol (default if SERIALPORT set)
-m tcp        MODBUS/TCP protocol (default otherwise)
-m udp        MODBUS UDP
-m enc        Encapsulated Modbus RTU over TCP
-o #          Master activity time-out in seconds (1.0 - 100, 3 s is default)
-a #          Slave address (1-255 for RTU/ASCII, 0-255 for TCP)
Options for MODBUS/TCP, UDP and RTU over TCP:
-p #          TCP port number (502 is default)
-c #          Connection time-out in seconds (1.0 - 3600, 60 s is default)
Options for Modbus ASCII and Modbus RTU:
-b #          Baudrate (e.g. 9600, 19200, ...) (19200 is default)
-d #          Databits (7 or 8 for ASCII protocol, 8 for RTU)
-s #          Stopbits (1 or 2, 1 is default)
-p none       No parity
-p even       Even parity (default)
-p odd        Odd parity
-4 #          RS-485 mode, RTS on while transmitting and another # ms after
Options for Modbus RTU:
-f #          Tolerance for inter-frame gap detection in ms (0-20)
```

## Usage Examples

To get help on usage run the following command:

```
diagslave -h
```

To run a Modbus RTU server at 9600 baud on COM1 run:

```
diagslave -b 9600 -p none -m rtu COM1
```

To run a Modbus/TCP server on Ethernet run:

```
diagslave -m tcp
```