

FieldTalk™ diagslave

Linux Edition Read Me Notes

Revision 3.5, 2024-05-25

This *Read Me* file contains last-minute product information for the *FieldTalk™* diagslave utility.

diagslave is a command line based Modbus slave simulator and test utility.

Files part of the package

README.txt, README.pdf

These Read Me notes.

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arm-linux-gnueabihf/diagslave

ARMv7 binary for 32-bit ARM Linux systems (Raspberry Pi, BeagleBoard etc)

aarch64-linux-gnu/diagslave

ARMv8 binary for 64-bit AArch64 Linux systems

armv6-rpi-linux-gnueabihf/modpoll

ARMv6 binary for 32-bit ARM Linux systems (Raspberry Pi Zero)

i686-linux-gnu/diagslave

x86 binary for 32-bit x86 Linux systems

x86_64-linux-gnu/diagslave

x86_64 binary for 64-bit x86 Linux systems

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)
-m tcp	MODBUS/TCP protocol
-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:

-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)

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-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)
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Release history

Version 3.5 (2024-01-22)

- Added Linux ARMv6 RPI (32-bit) platform for Pi Zero
- Increased length limit for Modbus function 21 Write File Record

Version 3.4 (2021-03-26)

- Added Linux ARMv8 AArch64 (64-bit) platform

Version 3.3 (2020-10-17)

- Remove limit of 2000 addressable coils

Version 3.2 (2019-04-01)

- Added -f # option to set tolerance for inter-frame gap detection

Version 3.1 (2018-11-28)

- Modbus UDP protocol added (-m udp)

Version 3.0 (2018-07-09)

- RTU over TCP protocol added, which is also known as encapsulated RTU (-m enc)

Version 2.13 (2013-05-16)

- Bug fix, slave ID of 255 for Modbus/TCP did not work

Version 2.12 (2012-07-19)

- RTU/ASCII: Added RS-485 mode for Win32, QNX and Linux platforms.
- COMn syntax can now also be used for COM port number ≥ 10

Version 2.11 (2011-03-05)

- Protocol is now auto-detected as RTU or TCP depending on value of first parameter

Version 2.10 (2010-03-31)

- Added connection time-out, changed -t to -o for activity time-out.

Version 2.9 (2009-11-16)

- Default baudrate is now 19200 as per Modbus standard.

Version 2.8 (2009-10-26)

- Using the -d and -s command line parameters returned an error message in earlier releases.

Version 2.7 (2009-10-20)

- First release as standalone application.

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