

## FieldTalk™ modpoll

### Linux Edition Read Me Notes

Revision 3.6, 2018-11-29

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

modpoll is a command line based Modbus master simulator and test utility.

### Files part of the package

README.txt, README.pdf

These Read Me notes.

LICENSE-FREE.txt, LICENSE-FREE.pdf

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linux\_arm-eabi/modpoll

Linux ARM binary for ARM boards like Raspberry Pi and BeagleBoard

linux\_i386/modpoll

Linux x86 binary for 32-bit Intel x86 architectures

linux\_x86-64/modpoll

Linux x86\_64 binary for 64-bit Intel x86 architectures

### Usage

Usage: modpoll [OPTIONS] SERIALPORT|HOST [WRITEVALUES...]

Arguments:

SERIALPORT Serial port when using Modbus ASCII or Modbus RTU protocol

COM1, COM2 ... on Windows

/dev/ttyS0, /dev/ttyS1 ... on Linux

HOST Host name or dotted IP address when using MODBUS/TCP protocol

General options:

-m ascii Modbus ASCII protocol

-m rtu Modbus RTU protocol (default if SERIALPORT contains /, \\ or COM)

-m tcp MODBUS/TCP protocol (default otherwise)

-m udp MODBUS UDP

-m enc Encapsulated Modbus RTU over TCP

-a # Slave address (1-255 for serial, 0-255 for TCP, 1 is default)\n

-r # Start reference (1-65536, 1 is default)

-c # Number of values to poll (1-125, 1 is default)

-t 0 Discrete output (coil) data type

-t 1 Discrete input data type

-t 3 16-bit input register data type

-t 3:hex 16-bit input register data type with hex display

-t 3:int 32-bit integer data type in input register table

-t 3:mod 32-bit module 10000 data type in input register table

-t 3:float 32-bit float data type in input register table

-t 4 16-bit output (holding) register data type (default)

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-t 4:hex      16-bit output (holding) register data type with hex display
-t 4:int      32-bit integer data type in output (holding) register table
-t 4:mod      32-bit module 10000 type in output (holding) register table
-t 4:float    32-bit float data type in output (holding) register table
-i           Slave operates on big-endian 32-bit integers
-f           Slave operates on big-endian 32-bit floats
-e           Use Daniel/Enron single register 32-bit mode
-0           First reference is 0 (PDU addressing) instead 1
-1           Poll only once only, otherwise every poll rate interval
-1           Poll rate in ms, (1000 is default)
-o #         Time-out in seconds (0.01 - 10.0, 1.0 s is default)
Options for MODBUS/TCP, UDP and RTU over TCP:
-p #         IP protocol port number (502 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
```

## Release history

### Version 3.6 (2018-04-05)

- MODBUS UDP protocol added (-m udp)

### Version 3.5 (2017-03-24)

- Fixed argument validation bug which prevented using PDU mode with a start register of 0 (-r0 -0)

### Version 3.4 (2013-01-30)

- Increased reference count to 2000 for discretes/coils

### Version 3.3 (2012-10-25)

- Fixed error message when passing negative float values on the command line

### Version 3.2 (2012-03-28)

- COMn syntax can now also be used for COM port number  $\geq 10$

### Version 3.1 (2011-05-27)

- Slave ID of 0 is supported for Modbus/TCP

### Version 3.0 (2011-03-05)

- Write function added
- protocol is now auto-detected as RTU or TCP depending on value of first parameter
- -l pollDelay parameter added — Added "--" separator before values are printed to make parsing of result easier

### Version 2.10 (2010-08-26)

- -c parameter now accepts a value of 125.
- Changed default start reference (-r) to 1

### Version 2.9 (2010-01-29)

- Fixed lock-up issue on some Linux platforms which was introduced in 2.7.

### Version 2.8 (2009-11-16)

- Default baudrate is now 19200 as per Modbus standard.

### Version 2.7 (2009-06-04)

- Corrected help and range check for -a parameter

### Version 2.6 (2008-10-30)

- Added option -0 for PDU addressing and option -e for Enron/Daniel 32-bit mode.

### Version 2.5 (2008-04-03)

- A return code of 1 is returned if operation was not successful otherwise 0
- -c parameter now accepts a value of 100.
- Added time-out command line parameter.
- Retry count is now 0 for serial protocols (was 2 before).

### Version 2.4.0 (2006-10-20)

- Default parity changed to even as per Modbus standard.

### Revision 1.17 (2005-06-07)

- Using the -i command line parameters returned an error message in earlier releases.

### Version 2.2.1 / Revision 1.16 (2004-09-22)

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

### Version 2.2 / Revision 1.15 (2004-04-25)

- RTU over TCP protocol added, which is also known as encapsulated RTU.
- Recompiled against 2.2 release of libmbusmaster.

### Version 2003-05-20

- Recompiled against 2.0 release of libmbusmaster.
- RTU/ASCII: Added RS-485 mode for Win32, QNX and Linux platforms.
- ASCII: Fixed casting bug which caused protocol error when transmitting FF.
- MODBUS/TCP: Time-out applies now also when connecting to a server, tolerate a zero address field in an exception reply, fixed auto-retry.

### Version 1.2 (2002-11-19)

- Terminates in case of a closed TCP/IP connection.
- Some error messages changed.
- Changed command line options for holding and input registers. -t4 is now holding register, -t3 input register.
- Retry option is now working.
- --version parameter introduced.
- Retries fixed.
- -p parameter for MODBUS/TCP introduced.
- Default parity changed to NONE.
- Based on *FieldTalk* v1.3.

### Version 1.1 (2002-07-15)

- Reference index print-out for 32-bit values corrected.
- Based on updated *FieldTalk* library which fixed issue with time-out monitoring

### Version 1.0 (2002-03-03)

- First release

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