

# FieldTalk™ modpoll

## Windows Edition Read Me Notes

Revision 3.10, 2021-03-26

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.

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win/modpoll.exe
Intel x86 binary for Windows systems (32 and 64-bit)
```

## 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 name or dotted IP address when using MODBUS/TCP protocol
HOST
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
              Encapsulated Modbus RTU over TCP
-m enc
              Slave address (1-255 for serial, 0-255 for TCP, 1 is default)\n
-a #
-r #
             Start reference (1-65536, 1 is default)
-c #
             Number of values to read (1-125, 1 is default), optional for writing (use -c
-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
              16-bit output (holding) register data type (default)
-t 4
-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
-е
              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)
              Time-out in seconds (0.01 - 10.0, 1.0 s is default)
-0 #
Options for MODBUS/TCP, UDP and RTU over TCP:
-p #
              IP protocol port number (502 is default)
Options for Modbus ASCII and Modbus RTU:
              Baudrate (e.g. 9600, 19200, ...) (19200 is default)
-b #
-d #
              Databits (7 or 8 for ASCII protocol, 8 for RTU)
-s #
              Stopbits (1 or 2, 1 is default)
              No parity
-p none
              Even parity (default)
-p even
-p odd
              Odd parity
-4 #
              RS-485 mode, RTS on while transmitting and another # ms after
```

## Release history

#### Version 3.10 (2021-03-26)

Added Linux ARMv8 AArch64 (64-bit) platform

## Version 3.9 (2020-07-14)

- Added support for single register and single coil writes
- Display function code used in protocol configuration
- Removed automatic fallback to FC6 added in 3.7.

#### Version 3.8 (2020-03-24)

 Writing negative values was causing Unrecognized option or missing option parameter error under Linux

#### Version 3.7 (2019-07-21)

• Write functions with a count of 1 use now the following scheme: Registers use FC16 first, and if an illegal function exception is received will try FC6 as fallback. Coils always use FC5 for a count of 1. This helps with slave devices which do not implement mandatory FC16.

#### 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 >= 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 ealier 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 paremeter 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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