

Modbus Tester is a Windows application for commissioning, checking and fault-finding Modbus devices - power meters, circuit breakers, panel monitors and anything else that speaks Modbus. Pick the device from a list, type its Modbus ID, and its readings appear as named values with units: *Current L1 84.2 A, Breaker: Closed*. When a device does not answer, it says why, in words you can act on.

Key features

Devices ready to read

Built-in register maps for common Schneider Electric and CET devices - no register lists to type in.

Plain words, not register dumps

Readings as named tiles with units; status as words; a checklist when a device does not answer.

Find devices

Asks every Modbus ID on the line whether something is there, so you can add what it finds.

Save readings

Every device's readings at that moment, saved as a spreadsheet (CSV) for a test sheet or report.

Serial or network

A USB to RS-485 converter (Modbus RTU), Modbus TCP, or RTU over TCP through a gateway.

Expert mode

Every register and function code, a live traffic log, register scans, raw frames, trend charts, CSV recording and a slave simulator.

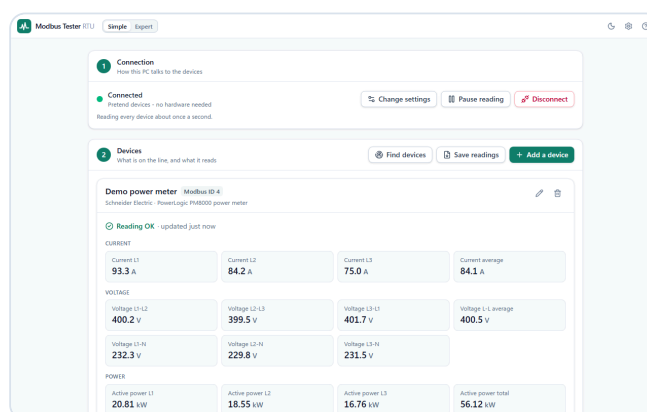
Practise with no hardware

Six simulated devices, including a Schneider-style meter and breaker and a CET PMC-592, to learn the tool before going on site.

Device presets

Maker	Device
Schneider Electric	PowerLogic PM8000 power meter
Schneider Electric	PowerLogic PM5000 power meter
Schneider Electric	Acti9 iEM3000 energy meter
Schneider Electric	ComPacT NSX breaker, MicroLogic E/A (via IFM)
Schneider Electric	MasterPact MTZ breaker, MicroLogic X
Schneider Electric	MasterPact NT/NW, ComPacT NS breaker, MicroLogic A/E/P/H
CET	PMC-592 multi-circuit power monitor
Any maker	Any Modbus device, from its register list

Presets are built from the makers' published register maps. Always confirm values against your device's own manual before relying on them.



Technical data

Protocols	Modbus RTU (serial), Modbus TCP, Modbus RTU over TCP
Serial connection	Any USB to RS-485 converter that appears as a Windows COM port
Serial settings	1200 to 230 400 baud; parity none, even or odd; 1 or 2 stop bits; 8 data bits; adjustable reply timeout and retries
Network settings	Device or gateway IP address and port (usually 502)
Modbus IDs	1 to 247; ID 0 (broadcast) for writes
Function codes	01, 02, 03, 04 read · 05, 06, 15, 16 write · 22 mask write · 23 read/write · 07, 08, 11 diagnostics · 17 server ID · 43/14 device identification
Request sizes	Read up to 125 registers or 2000 coils; write up to 123 registers or 1968 coils
Number formats	Unsigned/signed 16, 32 and 64-bit; 32 and 64-bit floating point; hex; binary; text; Schneider 4-quadrant power factor; scaling factor
Word orders	ABCD (Modbus default), CDAB, BADC, DCBA
Register numbering	Counting from 1 (most manuals) or from 0, per device
Searches	Find devices (every ID); find serial settings (every baud rate and parity)
Simulator	Acts as a Modbus slave on a COM port, as a Modbus TCP server, or as an RTU over TCP server - with deliberate errors for testing masters
Saving	Readings to CSV; continuous recording to CSV; traffic log to file

System requirements

- Windows 10 or Windows 11, 64-bit
- About 30 MB of disk space; no administrator rights needed to install
- For RS-485 devices: a USB to RS-485 converter and its driver
- Internet once, to activate a licence key (not needed afterwards)

Licensing

- **14-day free trial**, every feature, no sign-up
- **One-time licence** - no subscription; use it on 2 PCs
- Works offline once activated; move it to a new PC yourself
- Offline licences for sites with no internet, or purchase by invoice

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