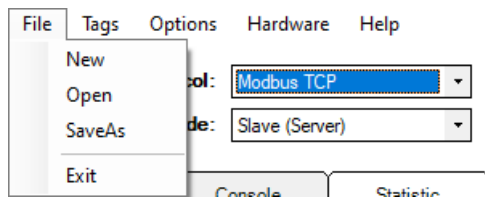


User Interface

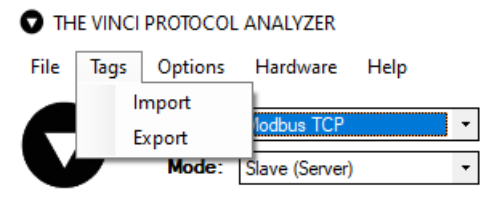
Menu Bar

File




- **New** - Create new .vinci file.
- **Open** - Open existing .vinci file.
- **SaveAs** - Save current file with a different name.
- **Exit** - Close the program.

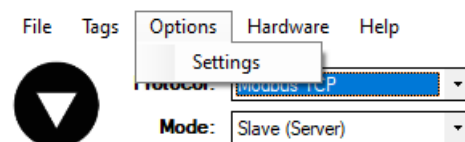
Tags



- **Import** - import previously saved .csv file.
- **Export** - export currently configured Tags to a .csv file.

 To get more information about how tags work click [here](#)

Options



- **Settings** - opens settings window as depicted below.

Settings

Colors

Value

ON *Specify color for ON value in event and statistic grids

OFF *Specify color for OFF value in event and statistic grids

ERROR *Specify color for any ERROR value in event and statistic grids

Status

ERROR *Specify color for any ERROR status in event and statistic grids

Format

Dec *Specify format decimal/heximal show data

Default path

Save Cancel

In this window you can choose:

- The colors that appear in the statistics menu.
- The format to show data. (Decimal or Hexadecimal)
- Default path to save session configuration.

Hardware

FrmHardware

Side A

1 Load from file 2 Save to file 3 Isolate A B 4 Reset

Light

☐ Light ON

Power (dBm): 5 Measure

Select PIN

6 Configure pins 7 Null cable 8 Disconnect All 9 Reset

RS232

10

| | | |
|---|---------|---|
| 1 | DCD IN | 1 |
| 2 | RX IN | 2 |
| 3 | TX OUT | 3 |
| 4 | DTR OUT | 4 |
| 5 | GROUND | 5 |
| 6 | DSR IN | 6 |
| 7 | RTS OUT | 7 |
| 8 | CTS IN | 8 |

RS485/422

11 RS485 Mode RS485

12 ☐ A(+) B(-) ☐ Y(+) Z(-) Pin swap ☐ A(+) B(-) ☐ Y(+) Z(-)

13 ☐ ON Slew rate ☐ ON

14 120Ω Terminating resistors 120Ω

Side B

15 Load from file 16 Save to file 17 Reset

Light

☐ Light ON

Power (dBm): Measure

Select PIN

Configure pins Null cable Disconnect All Reset

RS232

1 DCD IN | 1 | 2 | RX IN | 2 | 3 | TX OUT | 3 | 4 | DTR OUT | 4 | 5 | GROUND | 5 | 6 | DSR IN | 6 | 7 | RTS OUT | 7 | 8 | CTS IN | 8 |

RS485/422

11 RS485 Mode RS485

12 ☐ A(+) B(-) ☐ Y(+) Z(-) Pin swap ☐ A(+) B(-) ☐ Y(+) Z(-)

13 ☐ ON Slew rate ☐ ON

14 120Ω Terminating resistors 120Ω

Bottom Right

The Vinci S/N: 221090001

About Change port

18 Check for update 19 Load from file

Successful

⚠ The Vinci Expert device must be connected for this tab to work.

ℹ All of the settings are for A and B sides respectively except 3,4,15,16,17,18,19.

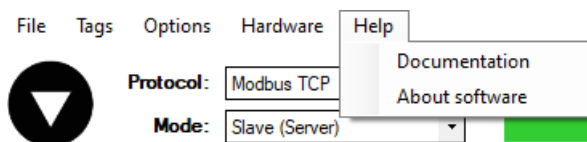
In this tab, The Vinci Expert device configuration may be changed.

1. **Load from file** - Configuration can be loaded for A and B side separately.
2. **Save to file** - Save hardware configuration for further use.
3. **Isolate A B** - by clicking this button isolation of The Vinci can be changed. It has the same functionality as the physical **Isolate** button.
 - Non isolated
 - The Vinci works like analyser/probe. Everything that comes to A side, comes out of B side and in reverse - what comes in B side goes to A side.

- **Isolated**
 - By pressing "Isolate A B" button, it isolates serial interface A side from B side. That means Vinci works like protocol master / slave. Everything that comes to A side, comes out of A side and in reverse – what comes in B side, goes out of B side.
4. **Reset** - The Vinci Expert resets to default settings.
 - All previous settings, including software-defined, will be set to defaults.
 - When the reset button is activated all lights flash clockwise once and the power indicator stays green.
 - When the Vinci is programmed by software, the power indicator stays red.
 5. Convert Fiber Optical channel from Light Off mode to Light On mode for A and B side separately.

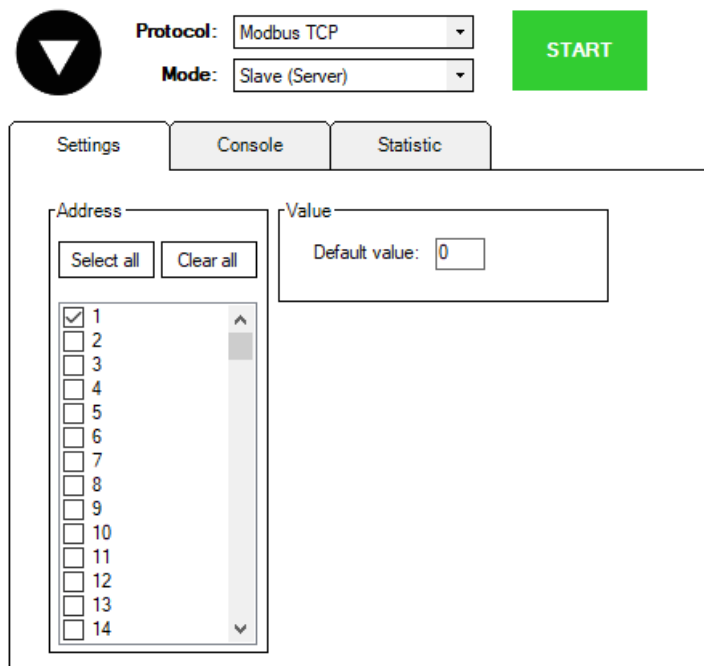
Measure - press this button to measure Light signal power in (dBm). 820nm is nominal wavelength.
 6. **Configure pins** - The Vinci Expert connects pins like in the specified configuration. (Configuration at 10)
 7. **Null cable** - by pressing this button you can switch modem cable mode to null.
 8. **Disconnect All** - disconnects all pin from connector.
 9. **Reset** - the pins will be reset to default RS232 pin sequence.
 10. Here RJ-45 pins can be assigned with RS232 signals for both A and B sides separately
 11. **Mode** - Selection between RS485 and RS422 serial interface.
 12. **Pin swap** - in **RS485** A(+)B(-) differential pair can be swapped. Using **RS422** mode, A(+)B(-) and Y(+)Z(-) differential pairs can be swapped respectively.
 13. **Slew rate** - slower slew rate can be enabled.
 14. **Terminating resistors** - selectable 100 Ohm, 120 Ohm or no termination resistor R_T on RS485 and RS422.
 15. The serial number of the connected the Vinci device.
 16. **About** - more information about The Vinci Expert device, incl. serial number and Firmware version.
 17. **Change Port** - change the control port of the The Vinci Expert device. Used when several The Vinci Expert devices are used.
 18. **Check for update** - automatically updates The Vinci Expert firmware version.
 19. **Load from file** - firmware can be updated from file.

Help




- **Documentation** - links to the wiki.
- **About software** - information about software and terms and conditions.

Settings



Protocol specific settings for the simulated device.

 Protocol specifics can be found [here](#)

Console

| | | | | | | | | | |
|--------------|--------|-------------------------------|-------|-----------|-------|--------|-------|-------|--|
| Settings | | Console | | Statistic | | | | | |
| Time | Source | Message | Slave | Function | Start | Number | Value | RawDa | |
| 11:46:27.628 | Vinci | Starting server 127.0.0.1:502 | | | | | | | |

Console log of all messages recieved and sent.

Statistic

In this tab you can see all the signal values that the Vinci Software has read from the configured device. In this example you can see values read from 8DI8DO IOMod after general interrogation


THE VINCI PROTOCOL ANALYZER
File Tags Options Hardware Help

Protocol: IEC 60870-5-103
Mode: Master
STOP
Port: COM11
Baudrate: 9600
Parity: None
Data bits: 8
Stop bits: One
Extra:
Set Vinci ports
Swap ports
Device Manager

Settings Console Statistic

| Ti | Cause | ASDU | FUN | INFO | INDEX | Value | Status | TimeTag | Name | Count |
|----------------------|----------------------|------|-----|------|-------|-----------------------------|--------|--------------|------|-------|
| StartOfGeneralInt... | GeneralInterogati... | 1 | 0 | 0 | 0 | 1 | | | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 1 | 0 | OH(1) | SIN:1 | 17:14:20:248 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 2 | 0 | OH(1) | SIN:1 | 17:14:22:319 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 3 | 0 | OH(1) | SIN:1 | 17:14:24:392 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 4 | 0 | OH(1) | SIN:1 | 17:14:26:472 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 5 | 0 | OH(1) | SIN:1 | 17:14:28:568 | | 2 |
| Time TaggedMes... | Command (20) | 1 | 128 | 6 | 0 | OH(1) | SIN:16 | 17:29:45:98 | | 6 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 7 | 0 | OH(1) | SIN:1 | 17:14:32:734 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 128 | 8 | 0 | OH(1) | SIN:1 | 17:14:34:811 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 1 | 0 | OH(1) | SIN:1 | 17:14:36:906 | | 4 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 2 | 0 | OH(1) | SIN:1 | 17:14:38:982 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 3 | 0 | OH(1) | SIN:1 | 17:14:41:55 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 4 | 0 | OH(1) | SIN:1 | 17:14:43:125 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 5 | 0 | OH(1) | SIN:1 | 17:14:45:205 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 6 | 0 | OH(1) | SIN:1 | 17:14:47:277 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 7 | 0 | OH(1) | SIN:1 | 17:14:49:363 | | 2 |
| Time TaggedMes... | GeneralInterogati... | 1 | 160 | 8 | 0 | OH(1) | SIN:1 | 17:14:51:441 | | 2 |
| GeneralInterogati... | EndOfGeneralInt... | 1 | 255 | 0 | 0 | 15 | | | | 2 |
| Identification (5) | StartRestart (5) | 1 | 255 | 1 | 0 | [2] [IOMOD-88] [1414745157] | | | | 1 |

Clear

Tags System
APDU
ASDU: 1
General interrogation
Send Scan: 1
Clock synchronization
Send
PC time 2021-12-31 12:37:48
General Command
FUN: 128 INF: 6 Ri: 0
ON OFF


Revision #6

★ Created 7 December 2021 08:34:44

✎ Updated 4 January 2022 08:34:21