Quick Start Guide for
TESLA LITE Power System Recorder

In our ongoing efforts to run our business in an environmentally sensitive way, we are encouraging the use of PDF manuals and software downloads, available from our website. For your convenience, links are provided below to all software files to be downloaded.

If you do wish to have a hard copy manual or software on CD, you may request those from our Customer Support team (contact info below).

If you are reading a hard copy of this document, download the soft copy (includes links) from our website's Support/Documents page, in the Quick Start Guide column.

http://www.erlphase.com/support.php?ID=documents

1. Downloading the Required Software and Manual

a. TESLA LITE comes loaded with the requested firmware version. All required software, as well as the release description of the latest firmware version, is available on the Software page of our website. Contact our Customer Support team for release descriptions of any other firmware version.
b. Download the following software on your computer:
   TESLA Control Panel
   USB Driver
   HyperTerminal (or equivalent Terminal Emulation Application)
c. Install TESLA Control Panel
d. Install the USB driver (refer to Section 5 in this guide)
e. Install Null Modem (refer to Section 3 in the user manual)

The TESLA LITE user manual and other documents such as drawings are also available on the Documents Page of our website.

2. PC Hardware and Operating System Requirements

Minimum hardware requirements:

- 1 GHz processor
- 2 GB RAM
- 20 GB available hard disk space
- USB port
- Serial communication port (optional)
- Windows 7 Professional or Windows 10 Professional

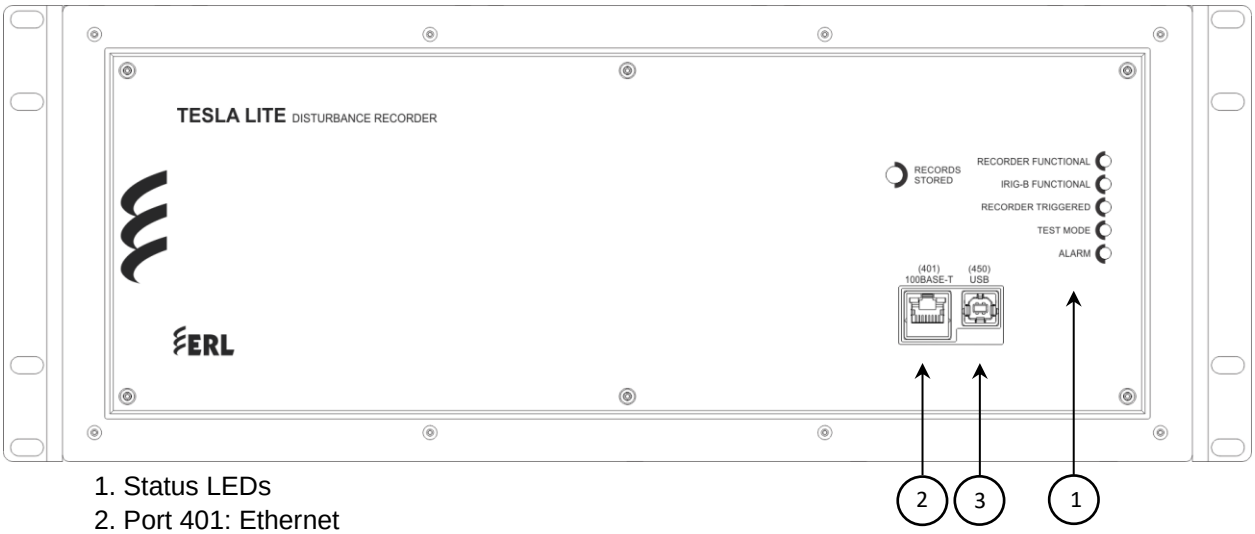
3. Unpacking and Connecting the Recorder

The following items are included in the TESLA LITE shipping box:

- USB cable
- Letter of Compliance to ISO 9001:2015 standard

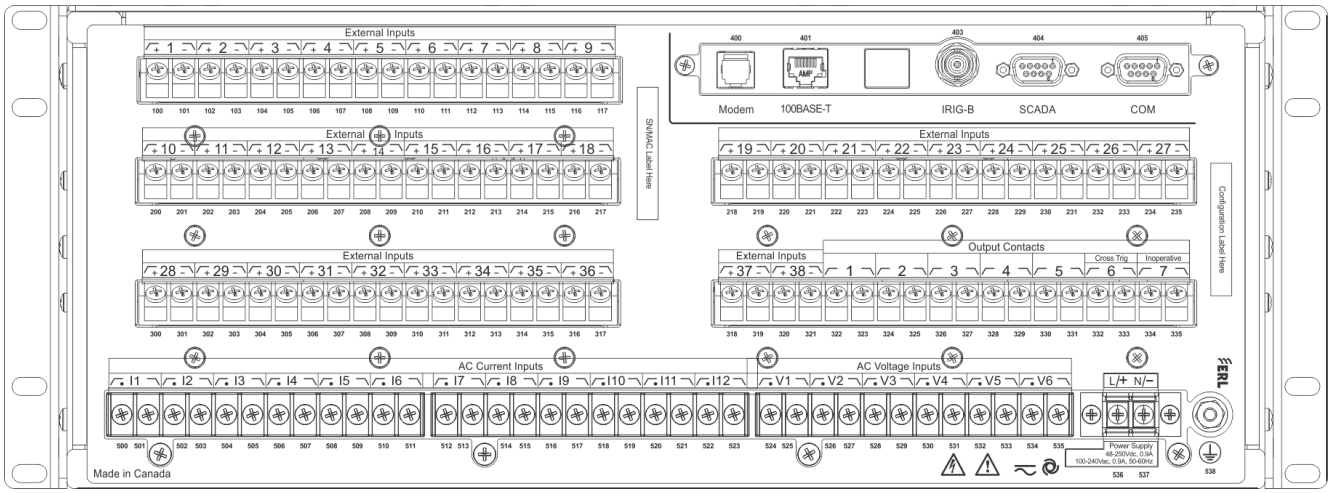
There are no power switches on the recorder. When the power supply is connected, the recorder starts its initialization process.

1. Ground the TESLA LITE at port 538, as shown in Figure 2.
2. Connect the power supply to port 536-537, as shown in Figure 2. The wire used to connect to the power supply shall be at least 18 AWG (1.02 mm2), 600 V.
3. Analog connections to the TESLA LITE are to be made directly to the corresponding sections of voltages or currents on the rear part of the recorder. More information is available in section 1-2 of the TESLA LITE User Manual.



1. Status LEDs
2. Port 401: Ethernet
3. Port 450: USB

Figure 1 - TESLA LITE Front Panel



Port 400: internal modem (option)
Port 401: 100 BASE-T Ethernet network
Port 402: disabled
Port 403: IRIG B external clock, modulated or unmodulated
Port 404: EIA 232 SCADA communication (DNP3 and Modbus)
Port 405: EIA 232 serial connection for PC or an external modem
Port 500 – 523: AC current inputs
Port 524 – 535: AC voltage inputs
Port 100 – 117, 200 – 235 and 300 – 321: external inputs
Port 322 – 335: output contacts
Port 536 – 537: power supply (48 to 250 V_{dc}, 100 to 240 V_{ac})
Port 538: chassis ground

Figure 2 – TESLA LITE Rear Panel

4. Application Guides

Refer to the following application guides for help in connecting, configuring and calibrating your TESLA recorder. They may be downloaded from the Support section of our website on the Application Guides page (scroll to the TESLA Instructions section).

- Basic Instructions to Communicate with TESLA

5. Video Tutorials

Watch the following video tutorials to guide software installation and basic communication setup. The videos can be accessed from the Support section of our website on the Videos page (scroll to the TESLA 4000 video section).

- Connecting to a TESLA 4000 Using TCP Serial USB
- TESLA 4000 Ethernet Connection

The Application Guides and Video pages also contain a range of other valuable TESLA instructions and descriptions of specific applications.

For further information contact Customer Support at:

support@erlphase.com

+1 204 477 0591 ext 1