

## 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](#)
- c. Install TESLA Control Panel
- d. Install the USB driver
- e. Install Null Modem (refer to Section 3 in the User Manual)

Download the [TESLA Lite User Manual](#). Other documents such as Drawings are also available on the [Documents page](#) of our website.

### 2. 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

### 3. Unpacking and connecting the recorder

The following items are included in the TESLA Lite carton pack:

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

- Letter of Compliance to CE requirements (if requested)

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

1. 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 mm<sup>2</sup>), 600 V.
2. Ground the TESLA Lite at port 538, as shown in Figure 2

#### 4. TESLA Lite front and rear panel layout

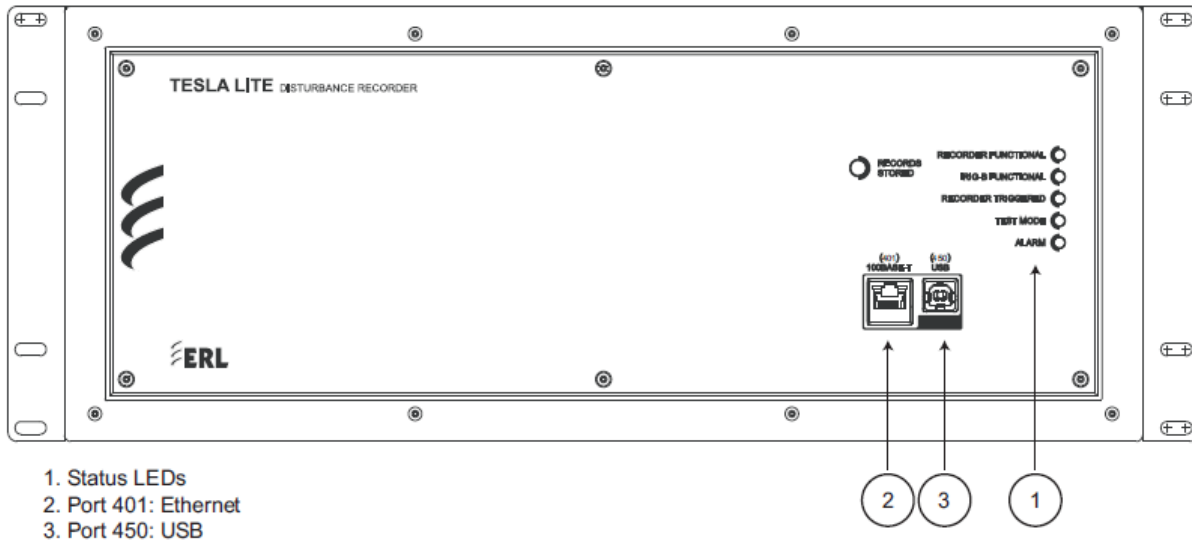
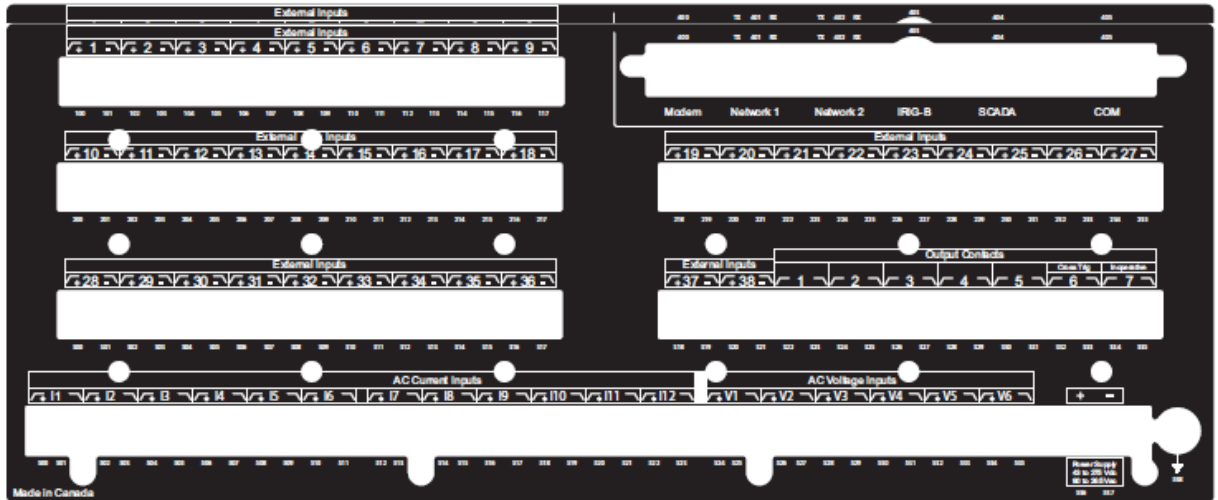


Figure 1 - TESLA Lite Front Panel



- Port 400: Internal Modem (option)
- Port 401 – 100/1000 BASE-T Ethernet Network
- Port 402 – Disabled
- Port 403: IRIG B External Clock, modulated or unmodulated
- Port 404: EIA 232 SCADA Communication (DNP 3 and Modbus)
- Port 405: EIA 232 Serial Connection for PC or an external modem
- Ports 500 – 523: AC Current Inputs
- Ports 524 – 535: AC Voltage inputs
- Ports 100 – 117, 200 – 235 and 300 – 321: External Inputs
- Ports 322 – 335: Output Contacts
- Ports 536 – 537: Power Supply (43 to 275 Vdc, 90 to 265 Vac)
- Port 538: Chassis Ground

Figure 2 – TESLA Lite Rear Panel

## 5. Application notes

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

- [Basic Instructions to Communicate with TESLA](#)

The Application Notes page also contains a range of other valuable TESLA instructions and descriptions of specific applications.

For further information and contact Customer Support at:

[support@erlphase.com](mailto:support@erlphase.com)

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