

LINE EYE LE-200PS

Eyeline LE-200PS Multi-Protocol Analyzer / Data Logger

Model: LE-200PS

1. PRODUCT OVERVIEW

The Eyeline LE-200PS is a lightweight, high-performance communication protocol analyzer with an integrated Data Logger function. It is designed to record data efficiently onto an SD card for extended periods. This model expands upon the capabilities of the LE-150P/150PS, offering support for a wide range of multi-protocols.

Key Features:

- Supports RS-232C, RS-422, and RS-485 as standard features.
- Comprehensive multi-protocol support including Asynchronous (Async), PPP, Character Synchronous (SYNC, BSC), and Bit Synchronous (HDLC, SDLC) communications.
- Advanced error detection capabilities for parity errors, framing errors, various block check code (BCC) errors, and short SDLC/HDLC frames.
- PC-connectable with dedicated PC link software (LE-LINK20) for controlling multiple analyzers.
- Robust design suitable for field environments, protecting data from power failures.



Figure 1: The Eyeline LE-200PS Multi-Protocol Analyzer. This image shows the compact, silver and black casing of the device, with its model number "LE-200PS" and "LINE EYE" branding clearly visible on the top surface. It features indicator lights for power, run status, and error detection.

2. SETUP

This section provides general guidelines for setting up your LE-200PS Multi-Protocol Analyzer. For detailed connection diagrams and software installation, please refer to the dedicated PC link software (LE-LINK20) manual.

1. **Power Connection:** Connect the appropriate power adapter to the LE-200PS unit. Ensure the power source meets the device's specifications.
2. **PC Connection:** Connect the LE-200PS to your computer using the provided USB or serial cable. The device is PC-connectable for configuration and data transfer.
3. **Software Installation:** Install the LE-LINK20 PC link software on your computer. Follow the on-screen instructions during installation. This software is essential for controlling the analyzer and managing recorded data.
4. **SD Card Insertion:** Insert a compatible SD card into the designated slot on the LE-200PS for data logging purposes. Ensure the card is properly formatted if required by the device.
5. **Protocol Cable Connection:** Connect the communication cables (RS-232C, RS-422, or RS-485) from the devices you wish to analyze to the corresponding ports on the LE-200PS.

3. OPERATING INSTRUCTIONS

The LE-200PS offers various modes of operation for protocol analysis and data logging. Detailed operational procedures are covered in the LE-LINK20 software manual.

3.1. Basic Operation

- **Power On/Off:** Press the power button to turn the unit on. The power indicator LED will illuminate. To turn off, press and hold the power button until the unit shuts down.
- **Mode Selection:** Use the device's interface or the LE-LINK20 software to select the desired analysis mode (e.g., Async, HDLC, SDLC).
- **Parameter Configuration:** Configure communication parameters such as baud rate, data bits, parity, stop bits, and protocol-specific settings via the LE-LINK20 software.

3.2. Data Logging

The LE-200PS can record communication data directly to an SD card, functioning as a reliable data logger.

- **Initiating Logging:** Start data logging through the LE-LINK20 software or directly from the device's controls if available. The 'RUN' indicator LED will typically show activity during logging.
- **Monitoring:** Monitor the 'ACT' (Activity) and 'ERROR' LEDs on the device to observe communication status and detect errors.
- **Stopping Logging:** Stop the logging process via the software or device controls. Ensure data is properly saved before removing the SD card or powering off.
- **Data Retrieval:** Connect the LE-200PS to a PC or remove the SD card to retrieve logged data for analysis using the LE-LINK20 software.

3.3. Error Detection and Notification

The analyzer is designed to reliably detect various communication errors.

- **Error Indicators:** The 'ERROR' LED on the device will illuminate upon detection of communication errors such as parity errors, framing errors, or BCC errors.
- **Triggering Function:** Utilize the triggering function in the LE-LINK20 software to set specific criteria for error notification, including application-level error strings.
- **External Notification:** The device can be configured to notify external devices of communication errors.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable operation of your LE-200PS.

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or solvents.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Software Updates:** Regularly check for updates to the LE-LINK20 software to ensure optimal performance and access to new features.
- **SD Card Management:** Periodically back up data from your SD card and consider formatting it to maintain performance. Replace the SD card if it shows signs of degradation.
- **Cable Inspection:** Inspect all connection cables regularly for signs of wear or damage. Replace damaged cables immediately.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with the LE-200PS. For more complex problems, refer to the LE-LINK20 software manual or contact technical support.

- **Device Not Powering On:**
 - Ensure the power adapter is securely connected to both the device and a working power outlet.
 - Verify the power outlet is functional.
- **No Communication with PC:**
 - Check the USB/serial cable connection between the LE-200PS and your PC.
 - Ensure the LE-LINK20 software is correctly installed and running.
 - Verify that the correct drivers for the LE-200PS are installed on your PC.
 - Try a different USB/serial port on your PC.
- **No Data Logging to SD Card:**
 - Ensure an SD card is properly inserted into the device.
 - Check if the SD card is full or write-protected.
 - Try formatting the SD card (*Note: This will erase all data on the card.*)
 - Ensure logging is initiated correctly via the software or device controls.
- **Communication Errors Detected (ERROR LED On):**
 - Verify that the communication parameters (baud rate, parity, etc.) are correctly configured in the LE-LINK20 software to match the connected devices.
 - Check the physical connections of the communication cables (RS-232C, RS-422, RS-485).
 - Inspect the cables for damage.
 - Ensure the connected devices are transmitting data correctly.

6. SPECIFICATIONS

Attribute	Detail
Model Number	LE-200PS
Manufacturer	LINE EYE

Supported Protocols	RS-232C, RS-422, RS-485, Async, PPP, Character Sync (SYNC, BSC), Bit Sync (HDLC, SDLC)
Data Logging	SD Card (capacity not specified, user to provide compatible card)
PC Connectivity	PC-connectable via dedicated software (LE-LINK20)
Batteries Included	No
Package Dimensions	23.2 x 14.6 x 7.9 cm
Item Weight	617.99 g
First Available Date	2 March 2013

7. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, and service, please contact LINE EYE customer service or refer to the official LINE EYE website. Keep your purchase receipt as proof of purchase for warranty claims. For software-related inquiries and updates, please refer to the LE-LINK20 software documentation or the LINE EYE support portal.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question