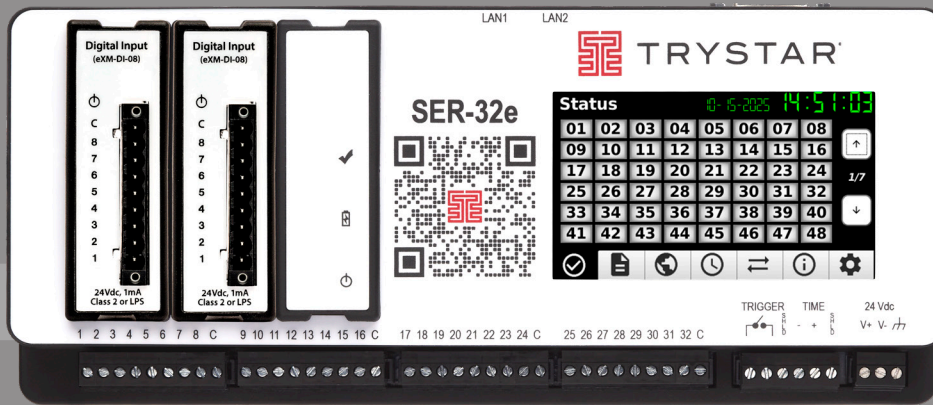




Sequence of Events Recorder — SER-32e

Reliable Power Starts with Precision Timing

Know what happened and when with Sequence of Events Recorders from Trystar. Designed to monitor critical power system activity and record state changes with millisecond precision, this solution provides reliable data for root-cause analysis, event reconstruction, and advanced diagnostics.

Flexible time synchronization, secure browser-based access, and integration with power monitoring, SCADA, building management, and data center infrastructure management systems make it easier to understand system performance and respond to power events. Trystar Sequence of Events Recorders deliver the visibility needed to reduce downtime, verify system operation, and improve power system reliability.



Benefits

- **Two expansion slots:** Adaptable to your application needs with field installable Input and Output modules (32 standard digital inputs/outputs, expandable to 48 inputs/outputs).
- **Color touch screen:** The SER-32e has a large 4.3" color touchscreen for easy menu navigation, device setup, diagnostics and input status viewing.
- **Time Synchronization :** Supports IEEE-1588 Precision Time Protocol (PTP), IRIG-B (B007, C37.118, IEEE 1344), DCF77, Network Time Protocol (NTP), Modbus TCP/IP, 1 per 10 and ASCII RS-485.
- **Embedded Web Server:** Connect over Ethernet via a standard secure web browser (HTTPS), with no proprietary software needed.
- **DIN Rail mounting:** Simple secure space-saving mounting.



Key Features

- **Millisecond Precision:** Monitors and records up to 48 channels with 1 ms resolution, enabling accurate root-cause analysis of critical events.
- **Time Synchronization Flexibility:** Supports multiple time protocols (PTP, NTP, IRIG-B, DCF77, Inter-SER), ensuring precise system-wide event correlation.
- **Seamless Integration:** Easily integrates into SCADA, Power Monitoring, and Building Management Systems with Modbus TCP, Secure Modbus TCP and RESTful API.
- **Built-In Cybersecurity:** Embedded HTTPS web server with 256-bit encryption ensures secure configuration and data access.
- **Ride Through:** Extended control power ride-through guarantees critical events are captured even during power outages.



Catalog Numbers

Catalog no.	Description
SER-32e	Sequence of Events Recorder



Applications

- **Data Centers:** Capture power system events, ATS operations, UPS transfers, and generator performance to support uptime and accelerate troubleshooting.
- **Electric Utilities & Power Generation:** Monitor breaker operations, relay trips, and system disturbances for faster fault analysis and grid reliability.
- **Healthcare Facilities:** Verify emergency power system performance during outages and ensure critical systems operate as designed.
- **Manufacturing & Industrial Plants:** Record equipment and power system events to reduce downtime, improve reliability, and support maintenance investigations.
- **Water & Wastewater Treatment Facilities:** Track power interruptions, pump controls, and backup power events to maintain continuous operation.
- **Oil & Gas Facilities:** Capture critical power and process events to improve system reliability and support operational safety requirements.
- **Transportation & Infrastructure:** Monitor electrical systems in airports, rail facilities, ports, and transit systems to support resilient operations.
- **Mission Critical Facilities:** Maintain detailed event records for facilities where uninterrupted power is essential, including communications, government, and defense applications.



Available Options

- Input Module
- Output Module
- Legacy Time Interfaces
- Voltage Adapter Kit