

## FEATURES

- **Small Form Factor/DIN Rail Mount**
- **Isolated Digital Input (9-36V<sub>DC</sub>)**
- **Two Isolated Digital Outputs (Relay Contact)**
- **Isolated Analog Input (0-36V<sub>DC</sub>)**
- **Eight Character User Interface Display**
- **Connectivity**
  - **Serial Port 1 - RS232**
  - **Serial Port 2 – Configurable RS232/422/485**
  - **10/100 Ethernet**
  - **USB OTG for Downloading Log Files**
- **Supports Industry-Standard Communication Protocols and Logging, including Genisys, DataTrain VIII, Peer, Modbus, Electrologixs/VHLC**
- **MicroSD card-based Data Storage Capability**
- **Real-Time Clock for Date/Time Stamping**
  - **Time Synchronization using NTP**
- **2000VAC Isolation Channel to Channel**
- **2000VAC Isolation Primary to COM & I/O**
- **Meets AREMA 11.5.1 for Class C Equipment**



Log files are automatically created at startup, and at the start of each day. Data can be set to log periodically or only on changes. Old log files can be set to automatically delete after a specific amount of time, ensuring that the MicroSD card will not fill up completely and be unable to log new data.

## OVERVIEW

The Trilogy Products SiLoggerMini is the small form factor alternative to the DataLogger XL. The SiLoggerMini has been developed specifically for the transit/rail industry but is suitable for other industrial/commercial applications where event recording, communication gateway, or logic processing functionality is needed. One analog input is provided for logging an analog voltage, such as a power supply voltage or current feedback. One digital input is provided for logging an external point. Two general purpose relay outputs are provided and can be configured for a number of different purposes. The SiLoggerMini can be customized to log data via the communication interface using various standard protocols. It contains a computerized display used to show status of I/O points, communication settings, and other system info.

## CONNECTIVITY

The Data Logger can be accessed multiple ways, for example via FTP, USB, or web interface. The Data Logger also supports NTP for time synchronization to a time server.

## LOGGING CAPABILITIES

The internal storage medium used by the Data Logger is MicroSD card based. MicroSD and MicroSDHC/XC cards are supported. At the time of this writing the Data Logger Mini ships with a 32GB MicroSD card installed.

Below are some types of data that can be configured for logging:

- Communication link data changes
- Communication status changes
- Input/Output bit changes
- Analog input changes
- Fault conditions

## MAPPING AND LOGIC ENGINE

The Data Logger Mini features the ability to map bits and values from incoming data links to internal registers, other communication links, and digital I/O. This permits the Data Logger to be used as a gateway device to translate between protocols, or between digital I/O and logical I/O. In addition there is an expression evaluator built into the Data Logger that allows manipulation of internal data structures to perform more complex functions than simple mapping would permit.

## MECHANICAL SPECIFICATIONS

Dimensions \_\_\_\_\_ 6in D x 5in H x 1in W  
 Max Connector Wire Gauge \_\_\_\_\_ #16 AWG  
 USB Connector \_\_\_\_\_ USB-B  
 Ethernet Connector \_\_\_\_\_ RJ45  
 I/O Connector \_\_\_\_\_ Phoenix Contact 1875917

## ELECTRICAL SPECIFICATIONS

Input Voltage \_\_\_\_\_ 9-36V<sub>DC</sub>  
 Maximum Power Consumption \_\_\_\_\_ 5W  
 Operating Temperature Range \_\_\_\_\_ -40 °C to +70 °C  
 Min Digital Input ON Voltage \_\_\_\_\_ +9V<sub>DC</sub>  
 Max Digital Input ON Voltage \_\_\_\_\_ +36V<sub>DC</sub>  
 Min Digital Input OFF Voltage \_\_\_\_\_ -20V<sub>DC</sub>  
 Max Digital Input OFF Voltage \_\_\_\_\_ +2.5V<sub>DC</sub>  
 Min Analog Input Voltage \_\_\_\_\_ 0V<sub>DC</sub>  
 Max Analog Input Voltage \_\_\_\_\_ 36V<sub>DC</sub>  
 Channel to Channel Isolation \_\_\_\_\_ 2000V<sub>RMS</sub>/1 Min  
 COM Ports to I/O Isolation \_\_\_\_\_ 2000V<sub>RMS</sub>/1 Min  
 Primary to COM Ports & I/O Isolation \_\_\_\_\_ 2000V<sub>RMS</sub>/1 Min  
 MicroSD Card Size \_\_\_\_\_ 32GB

**PHYSICAL LAYOUT**

