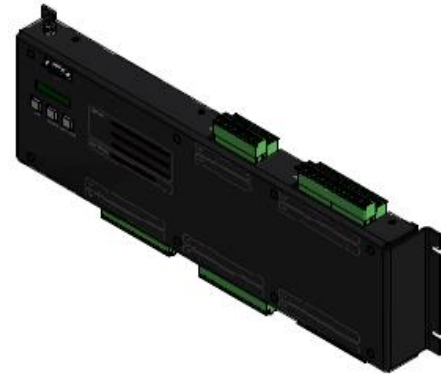


FEATURES

- **48 Digital Inputs**
 - Differential Input Connection
 - 2000VAC Primary-Secondary Isolation
 - 2000VAC Isolation Between Banks of 4
- **8 Analog Inputs**
 - Differential Input Connection
 - 2000VAC Primary-Secondary Isolation
 - 2000VAC Isolation Between Banks of 4
- **12 Relay Outputs**
 - Normally Open Contacts
 - 2000VAC Primary-Secondary Isolation
 - 2000VAC Isolation Between Banks of 4
- **Computer Interface**
 - RS232 Serial Port
 - 10/100 Ethernet
 - USB OTG for Downloading Log Files
 - 2000VAC Isolation Between COM Ports
 - 2000VAC Primary-Secondary Isolation
- **User Interface**
 - User Input Buttons
 - Digital Information Display
- **Communication Protocols Including**
 - Genisys
 - Data Train 8
 - Microlok II Peer
- **Data Storage Capability**
 - Up to 64GB (MicroSD Card)
 - Real-Time Clock for Date/Time Stamping
- **Certified to AREMA Class C Standards**



DATA LOGGER CAPACITY

The internal storage medium used by the Data Logger is MicroSD card based. Cards up to 64GB are available (at the time of this writing), but frequency of data changes and length of I/O channel and state descriptions can vary. In a conservative estimation using the worst-case log entry length of 100 characters and an event frequency of 1 event per second, we can calculate that data would be logged at a 360kB/hour (8.64MB / day) rate. This means that a 4GB MicroSD card could contain 462 days of data at this rate, while a 64GB card could contain 7392 days of data. Even at higher event rates, it is clear that readily-available MicroSD card capacities will permit years of event recording without reaching storage capacity. The SiLoggerXL can, if desired, be configured to automatically delete log files of a certain age to prevent the file system from being overrun with old log files.

DESCRIPTION

The SiLoggerXL rugged Data Logger module reads electrically isolated digital and analog inputs. Closed contact relay outputs are provided for maximum output flexibility. The SiLoggerXL shares the states of these I/O points with a user's device using RS232 serial or Ethernet communications. The Trilogy communication protocol is open to extension to allow the user maximum interface flexibility, and can be customized to log data via communication interface as well as via hard-wired inputs.

The SiLoggerXL contains a computerized display used to show status of I/O points, communication settings, and other system info. Buttons are provided to allow the user to scroll through the various information that can be displayed.

Log files can be retrieved via Ethernet interface using FTP, USB OTG using a PC, or by removing the MicroSD card and reading it with a card reader.

MECHANICAL SPECIFICATIONS

| | |
|--------------------------------|-------------|
| Height | 5.25in |
| Width | 19in |
| Depth | 3in |
| Max Connector Wire Gauge | #16 AWG |
| USB Connector | USB-B |
| Ethernet Connector | RJ45 |
| Serial/I/O Connector | DB-9 Female |

ELECTRICAL SPECIFICATIONS

| | |
|--|-----------------------------|
| Input Voltage | 9-36V _{DC} |
| Maximum Power Consumption | 18W |
| Operating Temperature Range | -40°C to +70°C |
| Min Digital Input ON Voltage | +9V _{DC} |
| Max Digital Input ON Voltage | +36V _{DC} |
| Min Digital Input OFF Voltage | -20V _{DC} |
| Max Digital Input OFF Voltage | +2.5V _{DC} |
| Min Analog Input Voltage | 0V _{DC} |
| Max Analog Input Voltage | 36V _{DC} |
| Channel to Channel Isolation | 2000V _{RMS} /1 Min |
| COM Ports to I/O Isolation | 2000V _{RMS} /1 Min |
| Primary to COM Ports & I/O Isolation | 2000V _{RMS} /1 Min |
| Memory Size | MicroSD Card Size |

PHYSICAL LAYOUT

