

FEATURES

- **Small Form Factor/DIN Rail Mount**
- **Trouble Alarm Relay Contact (NO)**
- **Configurable Relay Output Contact (NO)**
- **Isolated Digital Input (9-36V_{DC})**
- **Isolated Analog Input (0-36V_{DC})**
- **Eight Character User Interface Display**
- **Computer Interfaces**
 - Serial Port 1 - RS232
 - Serial Port 2 – Configurable RS232/422/485
 - 10/100 Ethernet
 - USB OTG for Downloading Log Files
- **Communication Protocols Including**
 - Genisys
 - Data Train 8
 - Microlok II Peer
- **Data Storage Capability**
 - Up to 64GB (via internal MicroSD card)
 - Built-in Real-Time Clock for time stamping
 - Time Synchronisation using NTP
- **2000VAC Isolation Channel to Channel**
- **2000VAC Isolation Primary to COM & I/O**
- **Certified to AREMA Class C Standards**



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 SiLoggerMini can be configured to automatically delete log files older than a configurable number of days for a first-in first-out mechanism to prevent the file system from being overrun with old log files.

DESCRIPTION

The Trilogy Products SiLoggerMini is the small form factor alternative to the DataLoggerXL. The SiLoggerMini has been developed specifically for the transit/rail industry but is suitable for other industrial/commercial applications where event recording is performed over a serial interface. One analog input is provided for logging a power supply or battery charger voltage. One digital input is provided for logging an external point. One general purpose output point is provided for use in generating an external trigger. 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.

DATA LOGGER CAPACITY

Log files can be retrieved from the SiLoggerMini via FTP over Ethernet using any FTP client software. Additionally, the SiLoggerMini will appear to any computer as a read-only USB Mass Storage Device which requires no additional software for data extraction.

In a conservative estimation using the worst-case log entry length of 100 characters, and an event frequency of 1 event per second, one can calculate that data would be logged at a 360kB / hour (8.64MB / day) rate.

MECHANICAL SPECIFICATIONS

Height	5in
Width	1in
Depth	6in
Max Connector Wire Gauge.....	#16 AWG
USB Connector	USB-B
Ethernet Connector	RJ45
Serial Ports & /IO Connector...	Phoenix Contact 1875917

ELECTRICAL SPECIFICATIONS

Input Voltage	9-36V _{DC}
Maximum Power Consumption	5W
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

