

Masterclock®

Sequence of Events Recorders

POWERED BY **CYBER SCIENCES™**

SER-3200 / SER-2408

The **CyTime™ Sequence of Events Recorder** from Cyber Sciences monitors the status of 32 channels and records state changes with 1ms accuracy. Up to 8192 events are stored in nonvolatile memory. Two models are available: the SER-3200 features 32 high-speed digital inputs, while the SER-2408 has 24 inputs and 8 relay outputs. An embedded web server enables setup and monitoring over an Ethernet network using a standard web browser. Custom web pages can be created for specific applications and added functionality. With the **GMR5000 GPS Master Clock** and Modbus TCP communications, integration with supervisory systems such as an electrical power monitoring system (EPMS) is simple.

SPECIFICATIONS

Available Configurations

- > SER-3200 - 32 high-speed digital inputs
- > SER-2408 - 24 high-speed digital inputs and 8 control relay outputs

Time Reference Sources

- > PTP (IEEE 1588) Master/Slave via Ethernet (option)
- > Primary and secondary NTP servers via Ethernet
- > IRIG-B0 or DCF77 via optional EZC
- > IRIG-B0 or DCF77 via RS-485 (from another SER)

High-Speed Digital Inputs

- > Turn on/off time (max.) 0.5 ms / 0.5 ms
- > Each input is optically isolated
- > 24 Vdc nominal voltage

Digital Relay Outputs

- > Controllable via Modbus TCP
- > Form A solid-state relay
- > Normally open, true high signal
- > 24 Vdc nominal voltage
- > 2.0A rated contacts
- > Response time: <0.1 ms OFF to ON, < 0.1 ms ON to OFF



The GMR5000 can act as a Stratum 1 PTP or NTP server or provide an IRIG-B time code source.



Other Features

- > Embedded web server
- > LCD display and keypad
- > 4 GB memory
- > Trigger relay output contact closure duration: 100 ms
- > Status available via LCD, Modbus TCP and Web page
- > Standard DIN-rail mount hardware

Other Options

- > 32 GB memory option
- > EZ Connector for IRIG-B or DCF77

Power, Physical Dimensions, Operating Parameters

- > DC input (24 Vdc), 10 W max
- > Size: 11.25 x 4.75 x 3.13 in (286 x 121 x 79 mm)
- > Weight: 3.0 lb (1.4 kg)
- > Temperature: -25 to 70°C
- > Humidity: Up to 95% (non-condensing)

Compliance

- > FCC, ROHS, CE Marked, UL, cUL, RCM

MASTERCLOCK, INC.

1-YEAR LIMITED PARTS & LABOR WARRANTY

MADE IN THE USA

phone (USA and Canada):
1-800-940-2248

phone (international):
+1-636-724-3666

email:
sales@masterclock.com

online:
www.masterclock.com