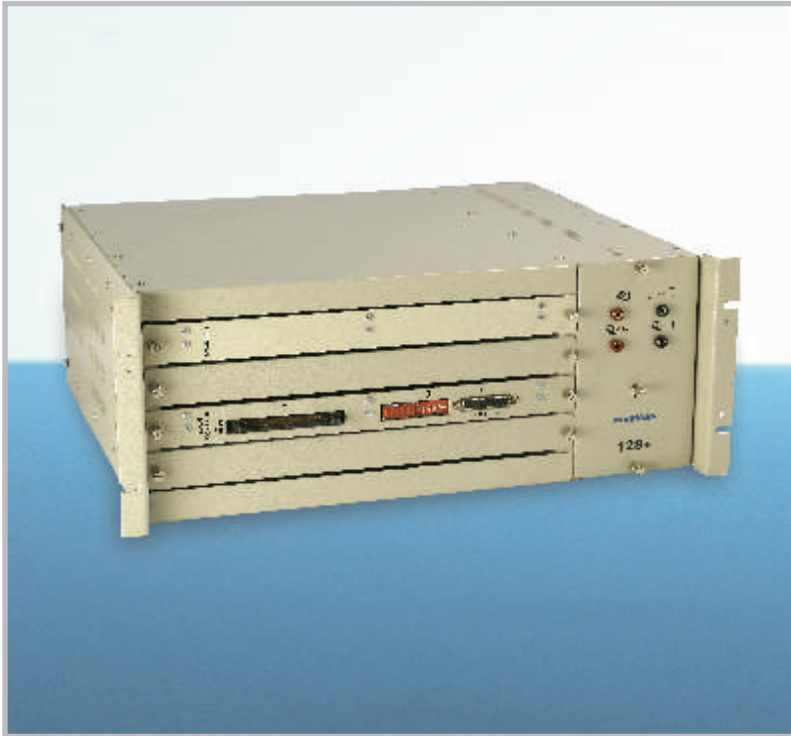


## Sequential Event Recorder (Model SER 128+)

SER 128+



The Model SER 128+ is a complete Masibus event recording system for small-scale monitoring applications. Its extensive communication facilities make it especially valuable as front end instrumentation for offloading to higher level hosts via modem devices. At the same time, the Model SER 128+ serves as a local indication and recording source for ongoing events data.

The system is designed in building block fashion for configuring the required capacity with room for future expansion. Its capacity ranges in 64 point increments from a minimum of 64 point increments from a minimum of 64 points (one scanner card) upto a maximum of 128 points for a single cage system.

The Masibus Model SER 128+'s sequential memory is capable of queuing over 220 event message per 64 points on each scanner card. The distribution of memory on separate scanner cards in 64 point increments ensures that the failure of individual cards will not destroy the system's entire memory bank. In addition, the Model SER 128+ features event storage for analysis purposes in the form of a circular historical buffer, whose design is unique in events recording instrumentation. It stores the last 2000 event captured, which can be easily accessed for pre-and post-fault analysis. By using a keyboard entry, a list of all events in the buffer of events occurring since the last request can be requested, which is particularly useful in unmanned applications.

In all, there are six different RS232C ASCII output ports available on the Model SER 128+, with a seventh port configured to accept an IRIG-B clock synchronization input.

Inherent reliability and security ensure the integrity of events data.

A crystal controlled clock that can be synchronized to the AC line, hourly input line, IRIG-B, or satellite receiver. There is battery back-up for both date and time and historical buffer. Finally, a programmable security code is available to limit access to the system.

### Features

- *Maximum up to 128 point capability in increment of 64 (2 scanner card)*
- *1 millisecond resolution.*
- *10 microseconds scan time.*
- *Sequential memory of 220+ event messages per 64 point scanner card.*
- *Six RS-232 port*
- *IRIG-B for time synchronization.*
- *Windows based RCW software for analysis.*

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# Sequential Event Recorder (Model SER 128+)

SER 128+

## 128+

### Maximum Pint Capability

Single cage, 128 points total in increments of 64 (two 64-point cards)

### Physical Data

Dimension : 19.00" (482.6 mm) rack mount,  
7.0" (177.8 mm) H x 16.50" (419.1mm) D

### Sequential Memory Capability

220+ event messages per 64 points

### Historical Memory Capability

Circular buffer with 2000 event storage

### Communication Ports (RS232 ASCII)

3 standard; 3 optional

### Auxiliary Relay Outputs

8 available rated at ½ amp at 120 Vac or 2 amp at 30 Vdc

### Input Power

85-264 VAC/120-370 VDC

### Field Contact Voltage

24V DC, 48V DC internally or externally supplied,  
125VDC or 250VDC external only

### Scan Time

10 microseconds or less

### Resolution

1 millisecond

### Internal Clock Accuracy

25 parts per million (ppm), standards.

### BClock Synchronization

- 50/60 Hz
- External sync pulse, once per hour
- GOES satellite, RS232C input from a True Time model 468DC clock
- IRIG "B"

### Input Isolation

Protected to 5000 V with a 1.5 mHz wave to 50 microseconds;  
IEEE587-1980 Test

### Software Adjustable Parameters Keyboard Initiated

- N.O./N.C. field contacts
- Alarm input time delay
- Return-to-normal time delay
- Point enable/disable
- 60 character legends with editing capability
- RS232C output port, fully configurable for device type, baud rate, and parity
- Pint assignments to each RS232C port
- Eight configurable relay outputs
- Time set or correction and date input
- Define oscillatory conditions

### Reports Available, Operator Initiated

- Point configuration report
- System configuration report
- Output port assignment report
- Full historical buffer report
- Historical buffer update report
- Point delete report
- Alarm summary report
- Functional test report
- List legend report

### Environmental data

- 0-95% humidity (non-condensing)
- 0 to 50°C temperature
- Meets current standards for RF/EMI

### RS232 Equipment Compatibility

- Color CRT display
- Printer terminals
- Printer
- Cassette storage recorders
- Various modems (long haul/short haul) for telephone, radio or microwave
- Computers via modems or RS232 link
- Serial input windows annunciators
- Distributed process control systems
- Programmable controllers
- GOES satellite receivers (time sync)

### Options

- Satellite clock synchronization
- IRIG B clock synchronization
- Remote configuration workstation
- Return-to-normal legends, 60 characters
- Redundant Power Supply Chassis

### Remote Configuration Workstation Software

- Windows based
- Configuration databased can be generated off-line
- Hard disk database storage
- Load database into equipment
- Retrieve database from equipment
- View, edit, and print configuration databases
- Automatic or manual historical event archiving at user defined interval
- View and print historical events
- Plant/Area wise grouping of points up to 8 groups
- Easy to use menu-driven operation
- Full-Screen interactive editing of databases
- Password protected