

# SAGE-CE

## Computerized Gas Monitoring System

Reference:

Quotation No:

Date:

SAGE-CE is a powerful software/hardware product designed for the monitoring of toxic and combustible gases. Sage-CE runs on microcomputers connected in real-time to gas monitoring equipment via a Satellite-485. Up to eight Delphian sensors can be connected to each Satellite-485 (up to 5,000 feet). Each Satellite-485 is connected by twisted pair to a host SAGE-CE (up to 4,000 feet). The SAGE-CE will monitor and report on all sensor activity. Web enabled - it can be accessed by any computer connected to the internet anywhere. The Radio Modem Satellite-485 is wireless and transfers data at 9600 baud up to ¼ mile in a city environment or greater than 20 miles line-of-sight with a high gain directional antenna. This module is perfect for applications where remote monitoring is required without installation of hard wiring to the SAGE-CE Computer.

### Features & benefits

- Real-time dynamic and animated graphic screens and alarms.
- Provides remote management capability
- Sends emails and/or text messages upon alarm
- View multiple gas monitoring systems from one Web browser
- No hard disk. Program stored in flash memory
- Multi-level security for applications, including use over Intranets and Internet.
- Satellite-485 protects equipment from ground loops and power surges by providing opto-isolation of A/D input and transformer based isolation up to 3000 VDC
- Data communications with corporate systems
- REPEATER-485 can extend the twisted pair an additional 4,000 feet for each one used
- The Sage CE Radio Modem is small with low power consumption, easy to integrate into the data highway, and requires no knowledge of RF. There is a choice of integral or separate external antennas. FCC approved - no additional licensing or approval required.
- Compatible with all Delphian sensors and systems
- Local or remote supervisory stations
- Runs on 24VDC

### SAGE-CE Specifications

- **Display:** 12.1" or 15" TFT VGA LCD Terminal
- **LCD resolution:** 800 x 600 @ 256 K
- **Ethernet:** 10/100 Base T Interface
- **USB:** One USB port
- **Keyboard/Mouse:** PS/2 keyboard/mouse port
- **Touch screen:** 4-wire, analog resistive, continuous resolution
- **Housing:** NEMA4/IP65 compliant Al-Mg housing
- **Power input:** 24 VDC, 3A maximum
- **Dimensions (W x H x D):** 311 x 237 x 50 mm (12.24" x 9.33" x 1.97")
- **Weight:** 2.2 kg (4.85 lbs)
- **Operating system:** Windows CE
- **Operating temperature:** 0 - 50C (32 - 122F)

### SENSOR SATELLITE-485

- **Input:** 8 channels: mV, V, mA
- **Sampling rate:** 10 samples/sec. (total)
- **Accuracy:** ±0.1% or better
- **Power consumption:** 1.2 W @ 24 VDC
- **Operating temperature:** 0 - 70C (32 - 158F)
- **Operating humidity:** 0 - 95% (non-condensing)

### RELAY SATELLITE-485

- **8 Channels:** four Form A and four Form C
- **Contact rating:** AC: 125 V @ 0.6 A; 250 V @ 0.3 A  
DC: 30 V @ 2 A; 110 V @ 0.6 A
- **Typical relay time:** On: 2 msec; Off: 4 msec
- **Power consumption:** 0.6 W @ 24 VDC

### REPEATER SATELLITE-485

- Power Consumption: 1.4 W @ 24 VDC

### RADIO MODEM SATELLITE-485

- **Radio frequency:** 902-928 MHz, unlicensed ISM
- **Type:** Secure Frequency Hopping Spread Spectrum
- **Network topology:** Point to Multipoint, Point-to-Point
- **Channel capacity:** 65,535 Network Identifiers share 25 hop Channels
- **Rx sensitivity:** -110 dBm (9600 Baud) Long Range > 20 Miles
- **Transmit power:** Output 100 mW nominal
- **Range:** Indoor: 600' to 1500 feet; Outdoor: <7 miles
- **Supply voltage:** 9 to 28 VDC
- **Current consumption:** Tx 150 mA, Rx 50 mA, Power Down <10 µA
- **Operating temperature:** -40 to 85 C (-40 to 185 F)
- **Operating humidity:** 10% to 90% (non-condensing)



*Delphian SAGE-CE web-enabled gas monitoring system with custom designed interactive screens. Delphian's SAGE-CE system connects with all Delphian combustible & toxic gas sensor/transmitters.*

*Sensor Satellite-485s connect up to eight Delphian sensors or other inputs to the SAGE-CE computerized gas monitoring system. Relay Satellite-485s provide up to eight relay outputs to the SAGE-CE computerized gas monitoring system.*



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