



# SEC 4100 System Monitor

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## Features

- *RS-485 digital input/output communication controller*
- *2 Line LCD display*
- *Displays I.D. number, alarm status and gas value*
- *Allows SEC devices to be connected in a complete loop*
- *Fiberglass or steel enclosure available*
- *Programmable alarm relays*
- *Zoning capabilities*
- *16 Tri-color LED's programmable for points or zones*
- *CSA approved model available*
- *RS-232C output*
- *Printer port*

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## Operation

The SEC 4100 System Monitor is a multi-channel microprocessor based controller designed to monitor the gas and fire detection network.

Each SEC 4100 System Monitor provides a digital display of each device and alarm level present at each detector. Initiates alarms when any device senses a dangerous condition.

The SEC 4100 System Monitor has 2 sets of "Data A" and "Data B" terminals, labeled LAN X and LAN Y. This allows the detectors to be connected in a complete loop. The SEC 4100 will transfer communication between the LAN X and LAN Y highway when a communication fault is detected.

The SEC 4100 System Monitor can be used with SEC DAIM Modules to add other types of devices to the network. See SEC 4853 DAIM data sheet for further information.

The SEC 4100 System Monitor can also be used in conjunction with the SEC 4850 Repeater, SEC 4851 Expansion Relay Controller, SEC 4852 High Density Display and SEC Supervision Plus software package.

# SEC 4100

## System Monitor

### Specifications

#### Digital Inputs

RS-485 Area Network  
Dual Channel

#### Input Power

24 VDC or 120 VAC or 220 VAC

#### SEC 4100 Relay Board (P/N 172-4002)

Each relay module has 8 relays, rated 8 Amp 120 VAC, Form "C" (SPDT). A total of 2 relay boards can be added to the SEC 4100. If additional relays are required SEC Expansion Relay Controllers are available.

#### LCD Digital Display

LCD display 2 Line by 20 Character display:

Point #      Zone      Alarm      Gas Value

#### LED Indicators

The multicolor LED's can be programmed to be a "point" or "zone" indicating the following:

OK - Green

Fault - Green, flashing on/off

Low Alarm - Amber

Mid Alarm - Amber, flashing on/off

High Alarm - Red

High High Alarm - Red, flashing on/off

Program Mode - Amber, flashing

#### Key Pad

The 16 position keypad is arranged with the numerals 0-9 and menu functions.

#### RS-232C Port

Industry Standard RS-232C driver for use with computers

#### Parallel Port

Industry Standard Centronics compatible printer port

#### System Protocol

The SEC 4100 System Monitor uses its own protocol to communicate with the SEC gas detectors, SEC 4853 DAIM, SEC 4850 Repeater, SEC 4852 High Density Display, SEC 4851 Expansion Relay Controller and SEC Supervision Plus software package.

#### CSA/NRTL Certification

Model number: SEC 4100-6233  
CSA File # LR95495-9

#### Output Power (Optional)

24 VDC @ 100 Watts

24 VDC @ 150 Watts

### SEC 4100 System Monitor Ordering Chart

#### SEC 4100-X2XX

##### Housing Options

- 0 - No Enclosure
- 1 - Rack Mount
- 2 - NEMA 4X (10" L x 12" H x 8" D)
- 3 - NEMA 4X (14" L x 12" H x 8" D)
- 4 - NEMA 4X (16" L x 14" H x 8" D)
- 5 - NEMA 4X (18" L x 16" H x 10" D)
- 6 - NEMA 4, 12, 13 (16" L x 16" H x 6" D)

##### Display Options

- 2 - Keypad and LCD Display

##### Power Supply Options

- 0 - No Power Supply
- 1 - 100 Watt Power Supply
- 3 - 150 Watt Power Supply

##### Relay Options

- 2 - Expandable Relays (Qty: 8)
- 3 - Expandable Relays (Qty: 16)

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