

## SEC 3500CR HMI Operator Interface

Document #1460049 Revision A ECO 000320

### Features

- *Intuitive graphical interface*
- *7" 16M-color 800x480 TFT Display*
- *RS485 Modbus® RTU Communication to SEC 3100*
- *10-Base-T/100-Base-TX Ethernet Port*
- *Configuration and Firmware are Stored in 512MB Non-volatile FLASH Memory*
- *SD Card Socket to increase memory capacity*
- *Power unit from 24VDC  $\pm$ 20% supply*
- *Resistive Analog Touchscreen*
- *Powerful 32-bit Processor*
- *Audible alarm*
- *Remote Web Access and Control Facility*
- *NEMA 4X / IP66 Front Panel*
- *16 Programmable Relays (Expandable to 40)*
- *Interfaces with up to 254 Network Devices*
- *"Stat Cast" RS232 System Status Broadcast*

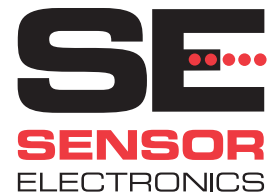
### Operation

The SEC 3500 HMI is an operator interface dedicated to communicating to the SEC 3100/3120 detectors, SEC 4855 Relay Controllers, SEC 3100 AIM, SEC 3100 LIM and SEC 3120 units. The SEC 3500 has output capabilities to the plant control system. The SEC 3500 uses an industry standard RS485 communication protocol to interrogate up to 254 Network Devices.

Standard display screens are set up for intuitive interaction for the operator and network devices. The primary screens are Main Zone Summary, Alarm Summary, Bus Summary. Individual device screens can be viewed and programmed from the SEC 3500 HMI. Password protected security ensures only authorized access to critical screens.

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## SPECIFICATIONS

### Operating Voltage

19 to 29 VDC ---

### Power Consumption

40 Watt Max (Not including relay)  
Contact current or 24VDC supplied to external relays

### Temperature Rating

Operating: 0° to + 50°C  
Storage: -25° to + 60°C

### Operation and Storage Humidity

0-85% maximum RH (Non-condensing)  
From 0° to + 50°C

### Altitude

Up to 2000 meters

### Interface

RS485 Port: Interactive "Modbus" (expandable to two)  
RS232 Port: "Statcast" System parameter broadcast  
Ethernet Port: Remote Screen Access  
10 BASE-T / 100 BASE TX  
RJ45 jack wired as a NIC (Network Interface Card)  
16 Programmable Relays (expandable to 40)

### Relay Contacts:

1 NO, 1 NC per Relay  
Contact Rating: 8A @ 30VDC, 8A @ 250VAC

### Audible Alarm

1 - Alarm and Fault

### Display

|            |                       |
|------------|-----------------------|
| Type       | TFT                   |
| Colors     | 16M                   |
| Pixels     | 800 X 480             |
| Brightness | 430 cd/m <sup>2</sup> |
| Backlight  | 50,000 hours typical  |

### Weight

45 lbs (20.7 kg)

### Battery

Lithium coin cell

### Memory

512 Mbyte non-volatile flash

### Memory Card

SD Card

### Enclosure Construction

Powder Coated Steel

### Housing Dimensions

16 (W) x 16 (L) x 10 (D) inches  
406 (W) x 406 (L) x 254 (D) mm

### System Components

SEC3500 Operator Interface (Master)  
SEC3100 Universal Gas Transmitter  
Remote Relay Modlue  
3100 AIM Interface Module  
3100 ISO Repeater  
3100 LIM Interface Module  
3120 Universal Transmitter  
3120BRS Module

### Approvals

No14-05, No 142  
UL 508  
UL 2017

### Relay Contacts

Cat. 1, Pollution Degree 2

## Other Products Available

Gas Detectors - Explosion proof  
Gas Detectors - Non Explosion proof  
Process Gas Analyzers  
Dual Gas Analyzers  
Portable Fire Suppression Systems:  
Dry Chemical  
Halotron  
Twin Agent  
Stationary Fire Suppression Systems



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