SEC 3500 HMI Operator Interface

Features

- *Intuitive graphical interface*
- *7.7" 256-color 640x480 DSTN Display*
- *RS485 Modbus® RTU communication to SEC 3100*
- *10-Base-T/100-Base-TX Ethernet Port*
- *Configuration and Firmware are Stored in 8MB of Non-volatile FLASH Memory*
- *CompactFlash® Socket to increase memory capacity*
- *Dedicated MENU Key and 6 Soft-Keys*
- *Three front panel LEDs*
- *Power unit from 24VDC ±20% supply*
- *Resistive Analog Touchscreen*
- *Powerful 32-bit Processor*
- *Audible alarm*
- *Remote Web Access and Control Facility*
- *NEMA 4X / IP66 Front Panel*

Operation

The SEC 3500 HMI is an operator interface dedicated to communicating to the SEC 3100 gas detectors, SEC 4855 Relay Controllers, SEC DAIM units. The SEC 3500 has output capabilities to the plant control system. The SEC 3500 uses an industry standard RS485 communication protocol to interrogate bidirectional to the entire device network.

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. There is password protected security allowing different levels of operators to access screens that allow modifications to the system.

SPECIFICATIONS

Operating Voltage
24 VDC +/- 20%

Power Consumption
24W maximum

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

Operation and Storage Humidity
0-80% maximum RH (Non-condensing)
From 0° to + 50°C

Altitude
Up to 2000 meters

Output (digital)
RS485 LAN via RJ45

Output (ethernet)
10 BASE-T / 100 BASE-TX
RJ45 jack wired as a NIC (Network Interface Card)

Audible Output
1 (Alarms and Faults)

Display
Type   DSTN
Colors   256 VGA
Pixels   640 X 480
Brightness 120cd/m2
Backlight   40,000 hours typical

Weight
3.84 lbs (1.74kg)

Battery
Lithium coin cell

Memory
8 Mbyte non-volatile flash

Memory Card
CompactFlash Type II slot for Type I &
Type II CompactFlash cards

Housing Construction
Steel rear metal enclosure with
NEMA4X/IP66 aluminum front plate.
Category II, Pollution Degree 2.

Housing Dimensions
2.2 (W) x 10.32 (L) x 8.18 (H) inches
{56 (W) x 262 (L) x 207.8 (H) mm}

CERTIFICATIONS AND COMPLIANCES:
SAFETY
UL Recognized Component, File #E179259, UL61010-1, CSA 22.2 No. 61010-1
Recognized to U.S. and Canadian requirements under the Component Recognition Program of Underwriters Laboratories, Inc
UL Listed, File #E211967, UL61010-1, UL1604, CSA 22.2 No. 61010.1, CSA 22.2 No. 213-M1987
LISTED by Und. Lab. Inc. to U.S. and Canadian safety standards
Type 4X Enclosure rating (Face only), UL50
IECEE CB Scheme Test Certificate #US/9737/UL
CB Scheme Test Report #E179259-V01-S04
Issued by Underwriters Laboratories Inc.
IEC 61010-1, EN 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1.
IP66 Enclosure rating (Face only), IEC 529
ELECTROMAGNETIC COMPATIBILITY
Emissions and Immunity to EN 61326: Electrical Equipment for Measurement, Control and Laboratory use.