

iO500 Intelligent Life Safety System

EST Catalog Small Building Fire Alarm Solutions Click Here to Return to **Bill of Material/Index**



7165-1657: 0244 ŰL Սլն S3000

Overview

The EST iO500 intelligent life safety system offers the power of high-end intelligent processing in a configuration that delivers an uncomplicated solution for small to mid-sized applications. With intelligent detection, electronic addressing, automatic device mapping, optional Ethernet® connectivity, and a full line of easily-configured option cards and modules, this flexible system offers offers versatility that benefits building owners and contractors alike.

The iO500 provides one Class A or Class B analog device loop that supports up to 250 device addresses. A second 250-point loop may be added to the iO500 to expand total system capacity to up to 500 device addresses. The panel includes four NACs that may be wired for either Class A or Class B operation.

The iO500 supports a wide range of accessories and related equipment, including:

- Signature Series intelligent modules, detectors, and bases
- R-Series remote annunciators
- · option cards that expand system capacity and extend system capabilities
- Listed for releasing applications using SIGA-REL
- Fully integrated CO detection using Signature Series 2 detectors with or w/o audible signaling

Features

- Comes standard with one loop (expandable to two) that supports up to 250 (expandable to 500) intelligent devices: each iO500 loop supports up to 125 detectors and up to 125 modules.
- Supports Signature Series intelligent modules and detectors
- Combines the Signature intelligent releasing module with Signature multisensor detectors for reliable suppression
- Four Class B NACs or two Class A NACs.
- Form C contacts for alarm and trouble, Form A for supervisory
- Electronic addressing with automatic device mapping •
- Optional Ethernet port for diagnostics, programming and a variety of system reports
- Two programmable switches with LEDs and custom labeling
- Supports Genesis horn silence over two wires and UL 1971-compliant strobe synchronization
- Supports up to eight serial annunciators, (LCD, LED-only, and graphic interface).
- 1,000 event panel history log
- Can use existing wiring for most retrofit applications •
- Upload/download remotely or locally
- Two-level maintenance alert reporting •
- Pre-alarm and alarm verification by point •
- Adjustable detector sensitivity
- 4 x 20 character backlit LCD display •
- Optional earthquake hardening: OSHPD seismic pre-approval • for component Importance Factor 1.5

Application

The iO500 life safety system is a powerful intelligent solution for small to mid-sized buildings. Advanced analog technology delivers the benefits of flexible system installation, while a clean and easyto-operatate user interface makes panel operation and system maintenance quick and intuitive.

The smart choice

Signature Series electronic addressing eliminates the tedium of setting dipswitches, and automatic device mapping ensures that each device resides on the system at its correct location. Meanwhile, innovative programming allows the designer to customize the system to precisely suit the needs of the building owner.

Flexibility built right in

Two fully-programmable front panel switch/LED combinations provide an added measure of flexibility. Their slide-in labels take the mystery out of custom applications, and present a clean finished appearance.

Perfect for retrofits

The iO500 is particularly well-suited to retrofit applications. All connections are made over standard wiring – no shielded cable required. This means that in most situations existing wiring can be used to upgrade a legacy control panel to iO500 technology without the expense or disruption of rewiring the entire building.

Signals with a difference

iO500 NACs are configurable to fully support the advanced signaling technology of Edwards Genesis and Enhanced Integrity notification appliances. These devices offer precision synchronization of strobes to UL 1971 standards. For Genesis devices, enabling this feature allows connected horns to be silenced while strobes on the same two-wire circuit continue to flash until the panel is reset.

Clear-cut remote annunciation

Remote annunciation is a strong suit of the iO500. Up to eight annunciators can be installed on a single system. Compatible annunciators include a range of LED and LCD models that provide zone or point annunciation, as well as common control capabilities.

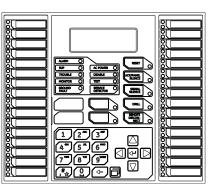
The iO500 also supports graphic annunciation with optional graphic annunicator interface modules. Each interface provides common control, indicators, and LED drivers. Consult the Ordering Information section for details.

A complete line of accessories

The iO500 life safety system is supported by a complete line of intelligent detectors, modules and related equipment. Consult the Ordering Information section for details.

Operation

The front panel provides an easy-to-use operator's interface, as well as all the necessary controls for front panel programming. A large back-lit 80-character LCD displays system status, event details, and programming prompts. Large tactile control buttons are easy to see in low light condi-



tions, and bright multi-color LEDs offer at-a-glance status indication.

Control buttons

Button	Description
Reset	Initiates a system reset.
ACK/Panel Silence	Silences the panel and remote annunciators during an active trouble, supervisory, or alarm event and acknowledges new event activations.
Signal Silence	<i>Alarm mode:</i> Silences active notification appliances. Pressing Signal Silence a second time turns NACs back on.
Drill	Initiates a drill confirmation. Pressing drill a second time turns off the drill function.
Remote Disconnect	<i>Dialer:</i> Disables or enables dialer. <i>Dialer set to modem only:</i> Disables or enables the common alarm relay.
Left arrow	Display mode: Moves the cursor to the left. Menu mode: Toggles between programming selections.
Right arrow	<i>Display mode:</i> Moves the cursor to the right. <i>Menu mode:</i> Retrieves a programming option's sub menu and toggles between a programming option's selections.
Up arrow	<i>Display mode:</i> Advances to the previous event. <i>Menu mode:</i> Moves the cursor up.
Down arrow	<i>Display mode:</i> Advances to the next event. <i>Menu mode:</i> Moves the cursor down.
Enter	Display mode: Displays selected event details. Menu mode: Retrieves a programming option's sub menu or jumps to the Save function in the menu. Entry mode: Enters the selected data into the system.
Cancel	Display mode: Exits the detailed information display. Menu mode: Exits the current menu level. Entry mode: Clears the current entry.
Menu	Display mode: Enters the menu mode Menu mode: Exits menu mode
Space	Enters a space, such as a space between words.
Alphanumeric keypad	<i>Entry mode:</i> Pressing a button once enters the number on the button. Pressing the button twice enters the secondary value.
Programmable buttons	These buttons can be programmed to control outputs, disable devices or unlatch system outputs. The buttons can be labeled with a slip-in insert.

System LEDs

LED	Description
Alarm	Red LED. On steady when there is an active
	alarm.
Trouble	Yellow LED. Flashes when there is a fault on a
	monitored circuit or system component, or when a
	circuit is disabled.
Sup	Yellow LED. On steady when there is an active
	supervisory event.
AC Power	Green LED. On when the panel has AC power.
Disable	Yellow LED. Double-flashes when there is a dis-
	abled circuit, alarm relay, or remote annunciator.
Ground	Yellow LED. On steady during an active ground fault.
Fault	
Test	Yellow LED. Flashes when performing an audible
	walk test. Steady indicates a silent test.
Monitor	Yellow LED. On steady when there is an active
	monitor event.
Service	Yellow LED. Indicates that detector needs servicing.
Detector	
Signal	Yellow LED. On steady indicates that NAC circuits
Silence	are turned off but the panel is still in alarm.
Remote	Yellow LED. On steady indicates that the dialer
Disconnect	is disabled or that the alarm relay is enabled or
	disabled when the dialer is set to modem only.
Drill	Yellow LED. Indicates that the panel is in drill.
Reset	Yellow LED. Indicates that the panel is resetting.
Panel	Yellow LED. Indicates that the panel has been
Silence	silenced during an active trouble, supervisory, or
	alarm event and indicates that new event activa-
	tions have been acknowledged.
User Keys	Yellow LED. Programmable.

Panel Operation Options

Language	English or French
Marketplace	U.S. or Canada
AC fail delay	Off: Off-premise notification of an AC power failure is immediate.<i>1 to 15 hours:</i> Delays the off-premise notification of an AC power failure by the time period selected.
Zone resound	<i>On:</i> NACs resound each time a device in the zone goes into alarm even if they were silenced Off: Inhibits the NACs from turning on again (after they were silenced) when a second device in the zone goes into alarm.
Reset inhibit after	Off: Panel reset is operational immediately.
NACs turn on	1 minute: Panel reset is inhibited for one minute.
Auto signal	Off: Allows immediate silencing of signals from an
silence	off-normal condition using the Signal Silence button 5 to 30 minutes: Delays the silencing of signals from an off-normal condition by disabling the Signal Silence button for the time period selected.
Day start	Start time for daytime sensitivity
Night start	Start time for nighttime sensitivity
Date	U.S.: MM/DD/YYYY, Canada: DD/MM/YYYY
Sounder Base	Six configuration settings
Mapping	Disabled: Device mapping is not available Enabled: Device mapping is available
LCD banner	Banner text for line one and line two. Each line is capable of up to 20 characters.
Event notification	<i>Zone:</i> When a device is a member of a zone, only the zone information is sent to the LCD display, LEDs, printer, and dialer. <i>Zone/device:</i> Zone information is sent to the LCD display and LEDs. Device information is sent to the printer and dialer. <i>Device:</i> Only device information is reported.

Programming

iO500 life safety systems are simple to set up, yet also offer advanced programming features that put these small building panels into a class of their own. The auto programming feature quickly gets the panel operational using factory default settings. Basic zone and point settings can be programmed easily through the front panel interface, so the system is up and running in no time.

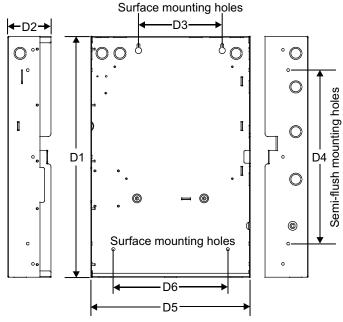
For more advanced system configuration and correlation groups programming, iO500 systems interface to a PC running compatible iO-CU software. This option offers full system configuration in the familiar Windows[®] operating environment. Connection is typically made to a laptop through the panel's optional RS-232 communications port, which can also be used to connect a system printer.

Among the many innovative features of iO500 control panels is the optional network card. This module provides a standard 10/100 Base T Ethernet[®] network connection that permits access to the control panel from any remote location with the correct communications protocols. The connection can be used to download to the panel from the iO-CU, or upload and view system reports using the iO-CU.

Available system reports include:

- Correlation groups
- Device maintenance
- Internal status
- System status
- Dialer
- ide: Dovice
 - Device detailsHistory
 - System configuration
- Walk test
 - CO runtime

Dimensions



Panel dimensions, in (cm)						
Model	D1*	D2	D3	D4	D5*	D6
iO500	28.0 (71.1)	3.85 (9.8)	9.0 (22.8)	22.0 (55.8)	15.75 (40.0)	10.25 (26.0)

* Add 1-1/2 in. (3.81 cm) to D1 and D5 dimensions for trim kit.

Wiring & Configuration

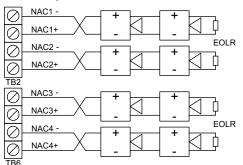
Notification appliance circuits (TB2)

iO500 control panels come equipped with four notification appliance circuits. Each circuit can be individually configured for continuous, temporal, synchronized, latching, and coded output.

Circuit specifications

en cure op co	
Circuit Type	4 Class B or 2 Class A, 2.5 amps each
Voltage	24 VFWR
Current	6.0 A total, 2.5 A max. per circuit at 120/230 VAC 60 Hz 5.0 A total at 230VAC 50 Hz, 2.5 A max. per circuit
Impedance	26 Ω total, 0.35 μF max
EOLR	15 K Ω, ½ W

Class B wiring



Class A wiring NAC1 \oslash \oslash NAC1+ \oslash NAC2 Ø NAC2+ TB2 Ø 00 + Õ TB6

Auxiliary & Smoke power outputs (TB3)

The control panel provides two auxiliary power outputs which can be used for powering ancillary equipment such as remote annunciators and two wire smoke detectors. Aux 2 can be software selected to operate continuous. The circuit is supervised for shorts and grounds.

Note: For a complete list of devices that can be connected to this circuit, refer to the iO Series compatibility list (p/n 3101064).

Circuit specifications		
Circuit voltage range	21.9 to 28.3 V	
Resettable circuit (Aux power 2)	24 VDC nominal at 500 mA	
Continuous circuit (Aux power 1)	24 VDC nominal at 500 mA. Use this circuit for powering two-wire smoke detectors.	

Note: Any current above 0.5 amp connected to both Aux 1 and 2 will reduce the total available NAC power by that amount.

Signature Device loop

The system provides one device loop circuit that can be used with any mix of Signature Series detectors and modules. The loop circuit is supervised for opens, shorts, and grounds.

The Signature Loop Controller uses broadcast polling and advanced communications formats to regularly check the entire device circuit for anomalies. If a change of state is detected at the circuit level, the Loop Controller then uses a direct address search to find the reporting device. This two-staged technique ensures that only new information is transmitted, thus allowing for a reduced baud rate while still achieving nearly instant device reporting.

Circuit specifications

on our opcomou			
Device loops	1 loop, expandable to 2, Class A or B, each loop		
	supporting up to 250 device addresses		
Communication	Maximun	n 20 V peak-to-peak	
line voltage			
Circuit current		0.5 A max	
Circuit	66Ω total, 0.5 μF, max		
impedance			
Isolators	64 maximum		
	Class B Wiring	Class A Wiring	
Loop 1 SEC +	Data Line		
Loop 1 PRI - \\ + \\			
	Loop Loop device device	Loop Loop device device	

Data Line

Annunciator loop (TB4)

The control panel provides a connection for up to eight serially driven and supervised remote annunciators.

Circuit specifications

Loop card

Device loops	Class B (Style Y) or Class A (Style Z)
Circuit voltage	2.55 V
Circuit current	30 mA max
Circuit impedance	Up to 8 annunciators or 4000 feet

Marking indicates

output signal polarity

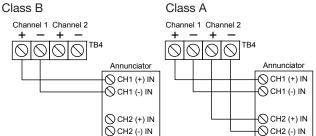
when the circuit is active. Polarity reverses

when the circuit is not active. Wire notification

appliances accordingly. Notification appliance

polarity shown in ac-

tive state.



Alarm, trouble, and supervisory relay (TB3)

The trouble relay is normally-open, held closed, and opens on any trouble event or when the panel is de-energized. The supervisory relay is normally-open, and closes on any supervisory event. The alarm relay changes over on any alarm event.

Relay specifications

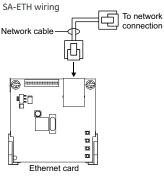
	Alarm	Trouble	Supervisory
Туре	Form C		Form A
Voltage	24 VDC at 1 A resistive	24 VDC at	1 A resistive

Relay circuits can only be connected to power-limited sources.

Option Cards

iO500 panels are supported by a complete line of modules and related equipment that enhance performance and extend system capabilities. Option cards plug directly into the control panel main circuit board or are connected to it with a ribbon cable. After installation, terminals remain accessible. The cabinet provides ample room for wire routing, keeping wiring neat at all times.

SA-ETH Ethernet Interface Card



The SA-ETH card provides a standard 10/100 Base T Ethernet network connection for connecting to an intranet, a local network, or the Internet. The card can be used to download configuration programming from the iO-CU to the panel over the network.

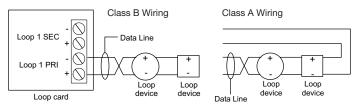
The Ethernet card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-ETH specifications	
Ethernet	10/100 Base T
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

XAL250 Loop Expander Card

The XAL250 Loop Expander Card provides an additional Signature Series device loop on the control panel. The card expands the control panel's device capacity to 500 total device addresses, 250 per loop. The card is compatible with Class B or Class A wiring. It is compatible with iO500 control panels only.

The loop expander card connects to connector J7 on the main circuit board.

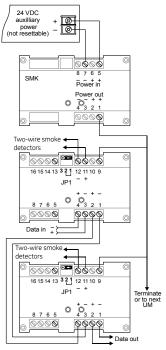


XAL250 specifications

ARE200 Specifications	
Device addresses on loop	125 detectors and 125 modules
Wiring	Class B (Style Y) or Class A (Style Z)
Operating voltage	20 V peak-to-peak
Operating current	0.5 A total
Circuit impedance	66 Ω, 0.5 μF, max
Terminal rating	12 to 18 AWG (0.75 to 2.5 sq mm)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F
	(32°C)

SMK Smoke Power Converter

The SMK Smoke Power Converter Module provides a regulated power source for two-wire smoke circuits connected to a Signature data circuit. The SMK monitors the operating power from the power supply. When power begins to degrade, the SMK provides the necessary operating voltage to the two-wire smoke detection circuits.

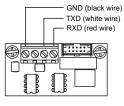


SMK specifications	
Input voltage	21.9 to 28.3 VDC (not resettable)
Output voltage	24 VDC nom. at 200 mA, max., special applications
Ground fault impedance	10 k ohm
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)
Storage temperature	–4 to 140°F (–20 to 60°C)
Compatible electrical boxes	North American 4 inch square x 2-1/2 in. (64 mm) deep 2 gang box or Standard 4 in. square box 1-1/2 in. (38 mm) deep
Wire size	14, 16, or 18 AWG wire (1.5, 1.0, or 0.75 sq. mm) (Sizes 16 and 18 AWG are preferred)

SA-232 RS-232 interface

The SA-232 card provides an RS-232 interface with iO500 panels. It can be used for connecting a printer to the control panel to print system events. The card also can be used for connecting a computer to download a configuration program from the iO-CU to the control panel.



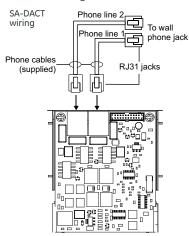


The RS-232 card is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-232 specifications	
Operating voltage	Standard EIA-232
Terminal rating	12 to18 AWG (0.75 to 2.5 sq mm)
Operating environment	
Temperature	32 to 120°F (0 to 49°C)
Humidity	0 to 93% RH, noncondensing at 90°F (32°C)

SA-DACT Dialer

The SA-DACT provides communications between the control panel and the central station over a telephone line system. It transmits system status changes (events) to a compatible digital alarm communicator receiver over the public switched telephone network. The dialer is capable of single, dual, or split reporting of events to two different account and telephone numbers. The modem feature of the SA-DACT can also be used for uploading and downloading panel configuration, history, and current status to a PC running the iO-CU.



The dialer phone lines connect to connectors on the dialer's main circuit board. Phone line 1 connects to connector J4 and phone line 2 connects to connector J1.

The SA-DACT queues messages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

SA-DACT specifications

Phone line type	One or two loop-start lines on a public, switched network
Phone line connector	RJ-31/38X (C31/38X)
Communication formats	Contact ID (SIA DC-05)
Operating environment Temperature Humidity	32 to 120°F (0 to 49°C) 0 to 93% RH, noncondensing at 90°F (32°C)

Compatible DACRs		
Receiver	Models	Formats
Ademco	685	Contact ID
FBII	CP220	Contact ID
Osborne-Hoffman	OH 2000	Contact ID
Radionics	D6600	Contact ID
Silent Knight	9800	Contact ID
Sur-Gard	SG-MLR1, MLR2	Contact ID

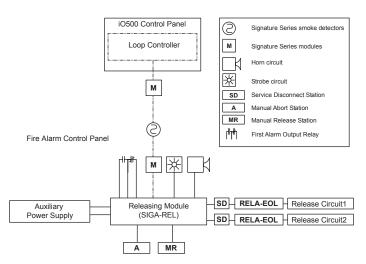
SIGA-REL Releasing Module

The SIGA-REL is an analog addressable module that communicates directly with the fire alarm panel Signature loop controller. The SIGA-REL controls sprinkler, pre-action and deluge systems, and may also be used to release extinguishing agents such as CO₂, Halon, or foam. The module is easily configured in the field and offers a wide range of options that ensure dependable service, while preventing the unnecessary release of extinguishing agent.

SIGA-REL specifications

ited) max.
circuit) uit) en circuit)
each uit) en circuit)
uit) en circuit) ning
uit) en circuit) · latching
Form C
en - la

Note: Output circuits are power-limited when the riser circuit is power-limited.



For detailed specification and ordering information on the SIGA-REL, refer to Data Sheet 85001-0531 -- Releasing Module.

Specifications

Device loops	1 loop, expandable to 2, Class A or B, each loop supporting up to 250 device addresses	Battery placement	iO500 cabinets accommodate up to 18 A/H batteries. Use a external cabinet for larger battery
NAC circuits	4 Class B or 2 Class A, 2.5 amps each		sizes.
Power supply	6.0 A total, 2.5 A max. per circuit at 120/230 VAC 60 Hz	Batteries	Batteries must be sealed lead acid type only. Maximum charging capacity = 26 Ah.
	5.0 A total at 230VAC 50 Hz, 2.5 A max. per circuit 0.5 amps aux power	Loop circuit	Maximum loop resistance: 66Ω . Maximum loop capacitance: 0.5μ F. Style 4, 6, and 7 wiring. 64 isolators maximum.
NAC Operating voltage	24 VDC. NAC minimum voltage: 19.5 VDC @ 20.4 V battery voltage	SIGA-UM/SIGA- MAB	1.5 mA (see the UL and ULC compatibility list for for the maximum quantity of detectors per circuit)
Loop circuit	20 V peak-to-peak	Compatibility ID	100
operating voltage		Alarm contact	Form C 24 VDC @ 1 A (resistive load)
SLC Primary power	120 VAC, 60 Hz, 230 VAC 50-60 Hz	Trouble contact	Form C 24 VDC @ 1 A (resistive load)
Aux Power 1	24 VDC nominal at 500 mA. A SMK module is	Supervisory contact	Form A 24 VDC @ 1 A (resistive load)
(Continuous circuit)	required when using the SIGA-UM module to support two-wire smoke detectors.	Environmental	Temperature: 0 to 49°C (32 to 120°F). Humidity: 0 to 93% RH, noncondensing
Aux Power 2	24 VDC nominal at 500 mA	Terminal rating	All terminals rated for 12 to 18 AWG (0.75 to 2.5 mm ²)
(Resettable circuit)		Serial	Voltage: 2.55 V. Current: 30 mA max
Auxiliary output	19 to 25.7 VDC	communications	
Base panel	Standby: 172 mA	Remote annunciator	8 drops max, RS-485 Class A or B
current draw	Alarm: 267 mA	Input zones	32 max.
Panel History Log	1,000 events	Agency Listing	UL864, UL2017, CSFM, ULC and NYFD #6020, FM approved

Ordering Information

Part	Description
iO500 Intellig	ent Multi-Loop Analog Systems
i0500G	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure, 115 Vac, English.
iO500G-2	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure, 230 Vac, English.
iO500GC	Canada only: 1 Loop system, 500 point capacity, 4 NACs, 16-zone LED display, grey door, surface mount, 115 Vac, English.
iO500G-F	Canada only: 1 Loop system, 500 point capacity, 4 NACs, 16-zone LED display, grey door, surface mount, 115VAC, French.
iO500GD	1 Loop system, 500 point capacity, two-line dialer, 4 NACs, Gray door, surface mount enclosure, 115VAC transformer, English.
i0500R	1 Loop system, 500 point capacity, 4 NACs, red Door, surface mount enclosure, 115VAC transformer, English.
iO500R-2	1 Loop system, 500 point capacity, 4 NACs, red door, surface mount enclosure, 230VAC transformer, English.
iO500RD	1 Loop system, 500 point capacity, two-line dialer, 4 NACs, Red Door, surface mount enclosure, 115VAC transformer, English.
iO500G-SP	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure, 115vac, Spanish.
i0500G-2-SP	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure, 230vac, Spanish.
iO500G-PG	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure, 115vac, Portuguese.
i0500G-2-PG	1 Loop system, 500 point capacity, 4 NACs, gray door, surface mount enclosure,, 230vac, Portuguese.
SA-TRIM2	Flush mount trim, black

Replacement Electronics

Replacement Electronics		
500elec-iO	Replacement electronics kit, complete motherboard and user interface, English	
500elec-iO-SP	Replacement electronics kit, complete motherboard and user interface, Spanish	
500elec-iO-PG	Replacement electronics kit, complete motherboard and user interface, Portuguese	
500elec-iO-FR	Replacement electronics kit, complete motherboard and user interface, Canadian French	

Option Cards

· · · ·	
SA-DACT	Dual Line Dialer/Modem, supports Contact ID, mounts in cabinet on base plate.
SA-232	Serial Port (RS-232), for connection to printers & computers, mounts in cabinet to base plate
SA-ETH	Ethernet Port, Slave, mounts in cabinet on base plate.
XAL250	Signature Loop Expansion Module. Adds second loop to iO500 systems, 250 point capacity. Mounts in cabinet on main board.
D16L-iO-2	LED Annunciator module, 16 X 2-LED zones (4 programmable for sup). Mounts in cabinet to right of LCD display for zones 17-32.
D16L-iO-1	LED Annunciator module, 16 X 2-LED zones (4 programmable for sup). Mounts in cabinet to left of LCD display for zones 1-16.
D8RY-iO-2	Canada only: LED Annunciator module, two LEDs per zone, 16 zones (4 alarm only, 8 supervisory only, 4 alarm or supervisory).
	Mounts in cabinet to right of LCD display for zones 17-32.
D8RY-iO-1	Canada only: LED Annunciator module, two LEDs per zone, 16 zones (4 alarm only, 8 supervisory only, 4 alarm or supervisory).
	Mounts in cabinet to left of LCD display for zones 1-16.

LCD Remote Annunciators (mount to standard 4" square electrical box)RLCDRemote Annunciator, 4X20 LCD & Common Indicators for displaying system status. Gray housing.RLCD-RRemote Annunciator, 4X20 LCD & Common Indicators for displaying system status. Red housing.RLCD-CRemote Annunciator, 4X20 LCD. Common controls and status indicators. Gray housing.RLCD-CRRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-SPRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Spanish.RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 s
RLCD-RRemote Annunciator, 4X20 LCD & Common Indicators for displaying system status. Red housing.RLCD-CRemote Annunciator, 4X20 LCD. Common controls and status indicators. Gray housing.RLCD-CRRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Spanish.RLCD-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-CRemote Annunciator, 4X20 LCD. Common controls and status indicators. Gray housing.RLCD-CRRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-SPRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Spanish.RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-CRRemote Annunciator, 4X20 LCD. Common controls and status indicators. Red housing.RLCD-SPRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Spanish.RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-SPRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Spanish.RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-PGRemote Annunciator, 4X20 LCD. Common system status indicators. White housing. Portuguese.RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-C-SPRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Spanish.RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLCD-C-PGRemote Annunciator, 4X20 LCD. Common controls and status indicators. White housing. Portuguese.RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLED-C-SPRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Spanish.RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
RLED-C-PGRemote Annunciator, common controls and status indicators. 16 groups w/2 LEDs each for zone display. White housing. Portuguese.GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
GCIGraphic Annunciator Driver Master for R-Series annunciators. Outputs for 32 LEDs, connection to common control switches and LEDs.GCIXGraphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
GCIX Graphic Annunciator Driver Expander for use with GCI Masters. Outputs for 48 LEDs, 24 switch inputs for R-Series annunciators.
For French common control, add suffix F to model number.
LED Remote Annunciators & Expander (mount to standard 4" square electrical box)
RLED-C Remote Annunciator. Common controls and status indicators with 16 X 2-LED groups for zone display. Gray housing.
RLED-CF Remote Annunciator. Common controls and status indicators with 16 X 2-LED groups for zone display. Gray housing, French.
RLED-CR Remote Annunciator. Common controls and status indicators with 16 X 2-LED groups for zone display. Red housing.
RLED24 Remote Annunciator Zone expander. 24 X 2-LED groups with custom label areas for display of alarm and trouble. Gray housing.
RLED24R Remote Annunciator Zone expander. 24 X 2-LED groups with custom label areas for display of alarm and trouble. Red housing.
Remote Annunciator Cabinets & Accessories
RA-ENC1 Remote Annunciator Enclosure, key locked with plexiglass window for one RLCD(C) or RLED(C).
RA-ENC2 Remote Annunciator Enclosure, key locked with plexiglass window with space for 2 of either RLCDx, RLEDx or RLED24.
RA-ENC3 Remote Annunciator Enclosure, key locked with plexiglass window with space for 3 of either RLCDx, RLEDx or RLED25.
RKEY Keyswitch, single gang, provides key operated enable or disable of common controls on RLCD or RLED units.
LSRA-SB Surface Mount Box - for R Series single units.

Programming Tools

iO-CU	EST Series configuration and diagnostics utility.
260097	RS232 cable, 4 conductor, DB9 PC interface

Intelligent Analog Addressable Devices & Accessories

Part #	Description	Ship wt.
Intelligent Detec		
SIGA2-PHCOS	Intelligent Multisensor Photoelectric/Heat Detector with carbon monoxide sensor	
SIGA2-PHS	Intelligent Multisensor Photoelectric/Heat Detector	
SIGA2-PHSB	Intelligent 4D Multisensor Detector (Black) - UL/ULC Listed	
SIGA2-PCOS	Intelligent Photoelectric Detector with carbon monoxide sensor	
SIGA2-PS	Intelligent Photoelectric Detector	0.4 (0.16)
SIGA2-HRS	Intelligent combination fixed temperature/rate-of-rise heat detector	
SIGA2-HFS	Intelligent fixed temperature heat detector	
SIGA2-HCOS	Intelligent fixed temperature heat detector with CO sensor	
SIGA2-COS	Intelligent Carbon Monoxide Detector	
SIGA-HFS	Intelligent Fixed Temperature Heat Detector	
SIGA-HRS	Intelligent Fixed Temperature/Rate-of-Rise Heat Detector	
SIGA-IPHS	Intelligent 4D Multisensor Detector	
SIGA-IPHSB	Intelligent 4D Multisensor Detector (Black)	0.5 (0.23)
SIGA-PHS	Intelligent 3D Multisensor Detector	
SIGA-PS	Intelligent Photoelectric Detector	
SIGA-SD	Intelligent Duct Detector	
SIGA-SB	Detector Mounting Base	
SIGA-SB4	4-inch Detector Mounting Base c/w SIGA-TS Trim Skirt	
SIGA-RB	Detector Mounting Base w/Relay	
SIGA-RB4	4-inch Detector Mounting Base /w Relay c/w SIGA-TS Trim Skirt	0.2 (0.09)
SIGA-IB	Detector Mounting Base w/Fault Isolator	
SIGA-IB4	4-inch Detector Mounting Base w/ Fault Isolator c/w SIGA-TS Trim Skirt	
SIGA-LED	Remote Alarm LED	
SIGA-AB4G	Audible (Sounder) Base	0.3 (0.15)

SIGA-TS4	Trim Skirt (supplied with 4-inch bases)	0.1 (.04)
SIGA-AB4GT	Audible (Sounder) Base for CO and Fire Detectors	0.3 (0.15)
SIGA-TCDR	Temporal Pattern Generator	0.3 (0.15)
Modules		
SIGA-CC1	Single Input Signal Module (Standard Mount)	0.5 (0.23)
SIGA-MCC1	Single Input Signal Module (UIO Mount)	0.18 (0.08)
SIGA-CC1S	Synchronization Output Module (Standard Mount)	0.18 (0.08)
SIGA-OC13	Synchronization Output Module (Standard Modult) Synchronization Output Module (UIO Mount)	0.18 (0.08)
SIGA-MCC13	Dual Input Signal Module (Standard Mount)	0.18 (0.08)
SIGA-MCC2	Dual Input Signal Module (UIO Mount)	
SIGA-MCC2	Control Relay Module (Standard Mount)	0.18 (0.08)
IGA-ON		0.4 (0.15)
	Control Relay Module (UIO Mount)	. ,
IGA-CRR	Polarity Reversal Relay Module (Standard Mount)	0.4 (0.15)
IGA-MCRR	Polarity Reversal Relay Module (UIO Mount)	0.18 (0.08)
IGA-RM1	Riser Monitor Module (Standard Mount)	0.5 (0.23)
IGA-MRM1	Riser Monitor Module (Plug-in)	0.18 (0.08)
IGA-IO	Input/Output Module (Standard Mount)	0.34 (0.15)
IGA-MIO	Input/Output Module (Plug-in)	0.22 (0.10)
IGA-MAB	Universal Class A/B Module (Plug-in)	0.18 (0.08)
IGA-CT1	Single Input Module	0.4 (0.15)
IGA-CT2	Dual Input Module	0.4 (0.15)
IGA-MCT2	Dual Input Plug-in (UIO) Module	0.1 (0.05)
IGA-IM	Fault Isolator Module	0.5 (0.23)
IGA-MM1	Monitor Module	0.4 (.15)
IGA-WTM	Waterflow/Tamper Module	0.4 (.15)
MK	Smoke Power Converter Module	0.4 (0.15)
IGA-UIO2R	Universal Module Board w/Riser Inputs - Two Module Positions	0.32 (0.15)
IGA-UIO6R	Universal Module Board w/Riser Inputs - Six Module Positions	0.62 (0.28)
IGA-UIO6	Universal Module Board - Six Module Positions	0.56 (0.25)
IGA-REL	Analog addressable releasing module	0.5 (0.23)
76A-REL	Manual releasing station (single-action). English markings, black text on yellow polycarbonate body.	1.0 (0.45)
78A-REL	Manual releasing station (double-action). English markings, black text on yellow polycarbonate body.	1.0 (0.45)
ELA-ABT	Manual Abort Station. English markings, black text on yellow polycarbonate body.	1.0 (0.45)
RELA-SRV-1	Service Disconnect Switch. One n/c contact and one n/o contact. English markings, white text on blue polycarbonate body.	1.0 (0.45)
ELA-EOL	Polarized end-of-line relay. English markings on stainless steel cover.	0.2 (0.1)
Accessories		
GCI	Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures.	
MTM	City Tie Module. Provides connection to a local energy fire alarm box.	0.6 (0.3)
PM	Reverse Polarity Module	3.0 (1.36)
8C-1	Battery Cabinet. 14.0" x 18.25" x 7.25". Holds 2 12V24A batteries.	50.0 (22.7)
C-1R	Battery Cabinet - Red. 14.0" x 18.25" x 7.25". Holds 2 12V24A batteries.	50.0 (22.7)
C-1EQ	Seismic hardening Kit for iO series panels. Includes battery hardening for BC-1 enclosure and components to harden panel internal components. See note below.	
1FC-A	Multifunction Fire Cabinet, 8" x 14" x 3.5" - RED.	20.6 (9.4)
T-1S	System Printer - Desktop style.	36.6 (16.6)

Note:

For earthquake anchorage, including detailed mounting weights and center of gravity detail, please refer to Seismic Application Guide 3101676-EN. Approval of panel anchorage to site structure may require local AHJ, structural, or civil engineer review.

Standby batteries must be mounted externally from fire panel in separately mounted BC-1 enclosure. Order BC-1 and BC-1EQ separately.



Contact us...

Email: edwards.fire@fs.utc.com Web: <u>www.est-fire.com</u>

EST is an **EDWARDS** brand. 1016 Corporate Park Drive

Mebane, NC 27302

In Canada, contact Chubb Edwards... Email: inquiries@chubbedwards.com Web: <u>www.chubbedwards.com</u>

© 2013 UTC Fire & Security Americas Corporation, Inc. All rights reserved. Specifications subject to change without notice. Edwards is part of UTC Climate, Controls & Security, a unit of United Technologies Corporation.