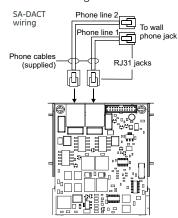
SA-DACT Dialer

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 mes-

sages and transmits them based on priority (alarm, supervisory, trouble, and monitor). Activations are transmitted before restorations.

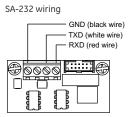
The SA-DACT is installed on the plastic assembly and connects to the main circuit board via a ribbon cable.

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	32 to 120°F (0 to 49°C)
Humidity	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		
Bosch	D6600	Contact ID		
Silent Knight	9800	Contact ID		
Sur-Gard	SG-MLR1, MLR2	Contact ID		

SA-232 RS-232 interface

The SA-232 card provides an RS-232 interface with iO 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 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)

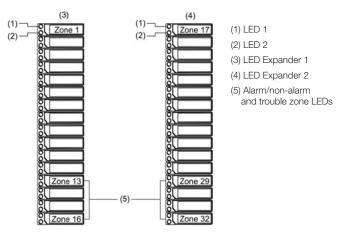
SA-CLA Class A Module (iO64 only)

The SA-CLA card provides Class A capability for NAC wiring. Its terminal block provides the wiring connection for NAC return wiring. The card is required for annunciator Class A wiring even though this wiring does not return to the SA-CLA card. The SA-CLA is compatible with iO64 control panels only. iO1000 panels are Class A Ready. The SA-CLA is installed directly to the control panel circuit board using its plastic standoffs and plug connection.

SA-CLA specifications	
Operating voltage	24 VFWR
Operating current	3.75 A FWR total at 120/230 VAC 60 Hz 3.0 A FWR total at 230 VAC 50 Hz 2.5 A max per circuit
Circuit impedance	26 ohms, 0.35uF
Terminal rating	12 to 18 AWG (0.75 to 2.5 sq mm)
Operating environment Temperature Humidity	32 to 120°F (0 to 49°C) 0 to 93% RH, noncondensing at 90°F (32°C)

D16L-iO LED Display Expander (iO1000 only)

The D16L-iO LED Display Expanders provide LED annunciation for up to 16 zones. It provides two LEDs for each zone. Two D16L-iO LED display expanders can be installed in each iO1000 panel.



Specifications

	iO64	iO1000	
Device loops	1 loop Class B or Class A (Styles 4, 6, 7) supporting up to 64 device addresses (any combination of detectors and modules)	1 loop, expandable to 4, Class A or B (Styles 4, 6, 7), each loop supporting up to 250 device addresses (125 detectors and 125 modules max.). Addresses 1 to 125 ar for detectors and addresses 126 to 250 are for modules	
	Maximum T-taps: 63	Maximum T-taps/loop: 124	
Notification appliance	(each device can be on its own branch) 2 Class B (Style Y), Class A (Style Z) optional	4 Class B (Style Y) or 2 Class A (Style Z)	
Notification appliance circuits	3.75 A FWR total at 120/230 VAC 60 Hz	6.0 A FWR total at 120/230 VAC 60 Hz	
	3.0 A FWR total at 230 VAC 50 Hz	5.0 A FWR total at 120/250 VAC 50 Hz	
	2.5 A FWR each max. per circuit		
 Primary power	120 VAC, 60 Hz, 1.3 A max.	2.5 A FWR each max. per circuit 120 VAC, 60 Hz, 2.0 A max.	
Filmary power			
Base panel current standby	230 VAC, 50-60 Hz, 0.62 A max.	230 VAC, 50-60 Hz, 0.97 A max.	
Base panel current alarm	204 mA	267 mA	
Input zones	16 max.	32 max.	
Remote annunciator	8 drops max., RS-485 Class B, Class A is optional	8 drops max., RS-485 Class A or B	
nomoto armanolator	Data line length: 4,000 ft. (1,219 m)	Data line length: 4,000 ft. (1,219 m)	
Operating voltage	24 VDC panel	Data in Clongin. 4,000 ft. (1,210 ft)	
Auxiliary power output	Aux power 1: 500 mA, 24 VDC		
circuit	Aux power 1: 500 mA, 24 VDC Aux power 2: 500 mA, 24 VDC (1 A possible if you reduce total available NAC power by 500 mA)		
	Output: 28.3 to 21.9 VDC, special application Note: For a list of compatible devices, see the iO64 and iO1000 Series Compatibility List (P/N 3102353-EN)		
Loop circuit	Note: For a list of compatible devices, see the 1064 and 101000 Series Compatibility List (P/N 3102353-EN) Maximum loop resistance: 66Ω		
	Maximum loop resistance: 00 12 Maximum loop capacitance: 0.5 µF		
	Communication line voltage: Maximum 20.6 V peak-to-peak		
	Operating current (fully loaded loop) Stand by: 55 mA/45 mA		
	Alarm: 125 mA/115 mA (not including two-wire smoke modules)		
	Circuit current: 0.5 A max. Style 4, 6, and 7 wiring		
	Max. resistance between isolators: Limited only by overall wire run lengths		
Pottorios	64 isolators maximum per loop (total both isolator bases ar	ia modules)	
Batteries	Type: Sealed lead acid		
	Voltage: 24 VDC		
	Charging current: 2.47 A max. Amp hour capacity: 26 Ah		
	Standby operation: 24 hour or 60 hour		
	Placement: Up to two 10 Ah batteries will fit in the iO64 control panel cabinet and two 18 Ah batteries will fit in the iO1000 control panel cabinet. If larger batteries are required, use an EDWARDS battery cabinet.		
SA-DACT dialer	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 current Standby/Alarm: 41 mA Max.: 100 mA		
	FCC registration number: GESAL01BSADACT		
	Industry Canada Registration number: 3944A-SADACT		
	Ringer equivalence number: 0.1B		
Ground fault impedance	Ninger equivalence number: 0.1B \sim 0 to 5 k Ω		
Alarm contact	Form C N.O. 24 VDC at 1 A (resistive load)		
Trouble contact	Form C 24 VDC at 1 A (resistive load)		
	Form A N.O. 24 VDC at 1 A (resistive load)		
Supervisory contact	FORM A N.O. 24 VDC at 1 A (resistive load)		
Supervisory contact Environmental	Temperature: 0 to 49°C (32 to 120°F) Relative humidity: 0 to	o 93% noncondensing	



LIFE SAFETY & INCIDENT MANAGEMENT

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Ordering Information

Programming Tools

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

Part	Description
iO1000 Fire	Alarm Systems
IO1000G	Four loop system with one 250-point loop installed. 110v, gray door.
IO1000G-2	Four loop system with one 250-point loop installed. 230v, gray door.
IO1000G-2-P	G Four loop system with one 250-point loop installed. 230v, gray door, Portuguese.
IO1000G-2-S	P Four loop system with one 250-point loop installed. 230v, gray door, Spanish.
IO1000G-CA	Four loop system, one 250-point loop installed. 110v, gray door, LED strips, Canada
IO1000GD	Four loop system, one 250-point loop installed. 110v, gray door, with dialer.
IO1000G-F	Four loop system, one 250-point loop. 110v, gray door, LED strips, French Canada.
IO1000G-PG	Four loop system with one 250-point loop installed. 110v, gray door, Portuguese.
IO1000G-SP	Four loop system with one 250-point loop installed. 110v, gray door, Spanish.
IO1000R	Four loop system with one 250-point loop installed. 110v, red door.
IO1000R-2	Four loop system with one 250-point loop installed. 230v, red door.
IO1000RD	Four loop system, one 250-point loop installed. 110v, red door, with dialer.
SA-TRIM2	iO1000 Flush mount trim, black.
iO64 Fire Ala	rm Systems
1064G	One loop system with one 64-point loop installed. 110v, gray door.
1064G-2	One loop system with one 64-point loop installed, 230v, gray door.
1064G-2-PG	One loop system with one 64-point loop installed, 230v, gray door, Portuguese.
1064G-2-SP	One loop system with one 64-point loop installed. 230v, gray door, 1 ortagess.
1064GD	One loop system, one 64-point loop installed. 110v, gray door, with dialer.
IO64GL	One loop system, one 64-point loop installed. 110v, gray door, English Canada.
IO64GL-F	One loop system, one 64-point loop installed. 110v, gray door, French Canada.
IO64G-PG	One loop system with one 64-point loop installed. 110v, gray door, Portuguese.
1064G-SP	One loop system with one 64-point loop installed. 110v, gray door, Spanish.
IO64R	One loop system with one 64-point loop installed. 110v, red door.
IO64R-2	One loop system with one 64-point loop installed. 230v, red door.
IO64RD	One loop system, one 64-point loop installed. 110v, red door, with dialer.
SA-TRIM1	iO64 Flush mount trim, black
Option Card	
iO-SDC1	Expansion module, one 250-device loop.
iO-SDC2	Expansion module, two 250-device loops, 500 devices total. For iO1000 only.
RZI16-2	Remote Zone Interface Module. 16 Class B IDCs, 2 Class B Output. Includes bracket.
SA-DACT	Dual Line Dialer/Modem, supports Contact ID, mounts in cabinet on base plate.
SA-232	RS-232 Serial Port for connection to printers & computers, mounts in cabinet.
SA-ETH	Ethernet Port, Slave, mounts in cabinet on base plate.
SA-CLA	Class A adapter module. Provides Class A capacity on NACs. Mounts in cabinet on
	main board. iO64 systems only.
D16L-iO-2	LED Annunciator module, 16 X 2-LED zones (4 programmable for sup). Mounts in
D (01 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	cabinet to right of LCD display for zones 17-32. For iO1000 only.
D16L-iO-1	LED Annunciator module, 16 X 2-LED zones (4 programmable for sup). Mounts in
D0D)(:0.0	cabinet to left of LCD display for zones 1-16. For iO1000 only.
D8RY-iO-2	Canada only: LED Annunciator module, two LEDs per zone, 16 zones (4 alarm only
D0D)(:0.4	8 supervisory only, 4 alarm or supervisory). Mounts in cabinet. For iO1000 only.
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. For iO1000 only.
Accessorie	
CTM	City Tie Module. 2-gang. Connection to a local energy fire alarm box.
MFC-A	Multifunction Fire Cabinet, 8" x 14" x 3.5" - red.
SIGA-REL	Releasing Module
PT-1S	System Printer
BC-1	Battery Cabinet. 14.0" x 18.25" x 7.25". Holds two 12V24A batteries.
BC-1R	Battery Cabinet - Red. 14.0" x 18.25" x 7.25". Holds two 12V24A batteries.
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BC-1EQ	Seismic hardening Kit for iO series panels. Includes battery hardening for
	BC-1 enclosure and components to harden panel internal components.
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