## 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 $\mathrm{iO}-\mathrm{CU}$.


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 | 32 to $120^{\circ} \mathrm{F}\left(0\right.$ to $\left.49^{\circ} \mathrm{C}\right)$ |
|  | 0 to $93 \% \mathrm{RH}$, noncondensing at $90^{\circ} \mathrm{F}$ $\left(32^{\circ} \mathrm{C}\right)$ |
| Compatible DACRs |  |
| Receiver Mod | dels Formats |
| Ademco 685 | Contact ID |
| FBII CP2 | 20 Contact ID |
| Osborne-Hoffman OH | 2000 Contact ID |
| Bosch D6600 | 00 Contact ID |
| Silent Knight 9800 | Contact ID |
| Sur-Gard SG-M | 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 to18 AWG $(0.75$ to 2.5 sq mm$)$ |
| Operating environment |  |
| Temperature | 32 to $120^{\circ} \mathrm{F}\left(0\right.$ to $\left.49^{\circ} \mathrm{C}\right)$ |
| Humidity | 0 to $93 \% \mathrm{RH}$, noncondensing at $90^{\circ} \mathrm{F}\left(32^{\circ} \mathrm{C}\right)$ |

## 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 SACLA 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 <br> 2.5 A max per circuit |
| Circuit impedance | 26 ohms, 0.35uF |
| Terminal rating | 12 to18 AWG (0.75 to 2.5 sq mm$)$ |
| Operating environment |  |
| Temperature | 32 to $120^{\circ} \mathrm{F}\left(0\right.$ to $\left.49^{\circ} \mathrm{C}\right)$ |
| Humidity | 0 to $93 \% \mathrm{RH}$, noncondensing at $90^{\circ} \mathrm{F}$ $\left(32^{\circ} \mathrm{C}\right)$ |

## 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) <br> Maximum T-taps: 63 <br> (each device can be on its own branch) | 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 are for detectors and addresses 126 to 250 are for modules <br> Maximum T-taps/loop: 124 |
| Notification appliance circuits | 2 Class B (Style Y), Class A (Style Z) optional <br> 3.75 A FWR total at 120/230 VAC 60 Hz <br> 3.0 A FWR total at 230 VAC 50 Hz <br> 2.5 A FWR each max. per circuit | 4 Class B (Style Y) or 2 Class A (Style Z) 6.0 A FWR total at 120/230 VAC 60 Hz 5.0 A FWR total at 230 VAC 50 Hz 2.5 A FWR each max. per circuit |
| Primary power | 120 VAC, 60 Hz , 1.3 A max. 230 VAC, $50-60 \mathrm{~Hz}, 0.62$ A max. | 120 VAC, $60 \mathrm{~Hz}, 2.0 \mathrm{~A}$ max. <br> 230 VAC, $50-60 \mathrm{~Hz}, 0.97$ A max. |
| Base panel current standby | 155 mA | 172 mA |
| 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 Data line length: 4,000 ft. (1,219 m) | 8 drops max., RS-485 Class A or B Data line length: 4,000 ft. (1,219 m) |
| Operating voltage | 24 VDC panel |  |
| Auxiliary power output circuit | Aux power 1: $500 \mathrm{~mA}, 24$ VDC <br> Aux power 2: $500 \mathrm{~mA}, 24 \mathrm{VDC}$ (1 A possible if you reduce total available NAC power by 500 mA ) <br> Output: 28.3 to 21.9 VDC, special application <br> Note: For a list of compatible devices, see the iO64 and iO1000 Series Compatibility List (P/N 3102353-EN) |  |
| Loop circuit | Maximum loop resistance: $66 \Omega$ <br> Maximum loop capacitance: $0.5 \mu \mathrm{~F}$ <br> Communication line voltage: Maximum 20.6 V peak-to-peak <br> Operating current (fully loaded loop) Stand by: $55 \mathrm{~mA} / 45 \mathrm{~mA}$ <br> Alarm: $125 \mathrm{~mA} / 115 \mathrm{~mA}$ (not including two-wire smoke modules) <br> Circuit current: 0.5 A max. Style 4, 6, and 7 wiring <br> Max. resistance between isolators: Limited only by overall wire run lengths <br> 64 isolators maximum per loop (total both isolator bases and modules) |  |
| Batteries | Type: Sealed lead acid <br> Voltage: 24 VDC <br> Charging current: 2.47 A max. Amp hour capacity: 26 Ah <br> Standby operation: 24 hour or 60 hour <br> 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 <br> Phone line connector: RJ-31/38X (C31/38X) <br> Communication formats: Contact ID (SIA DC-05) <br> Operating current Standby/Alarm: 41 mA Max.: 100 mA <br> FCC registration number: GESAL01BSADACT <br> Industry Canada Registration number: 3944A-SADACT <br> Ringer equivalence number: 0.1B |  |
| Ground fault impedance | 0 to $5 \mathrm{k} \Omega$ |  |
| Alarm contact | Form C N.O. 24 VDC at 1 A (resistive load) |  |
| Trouble contact | Form C 24 VDC at 1 A (resistive load) |  |
| Supervisory contact | Form A N.O. 24 VDC at 1 A (resistive load) |  |
| Environmental | Temperature: 0 to $49^{\circ} \mathrm{C}\left(32\right.$ to $120^{\circ} \mathrm{F}$ ) Relative humidity: 0 to $93 \%$ noncondensing |  |
| Terminal rating | All terminals rated for 12 to 18 AWG (0.75 to $2.5 \mathrm{~mm}^{2}$ ) |  |

## EDWNARDS <br> C United Technologits

LIFE SAFETY \& INCIDENT MANAGEMENT

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Ordering Information

## Part Description

| 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. |
| D00G-2-PG Four loop system with one 250-point loop installed. 230v, gray door, Portuguese. |  |
| 101000G-2-SP | 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. |
| O1000G-F | Four loop system, one 250-point loop. 110v, gray door, LED strips, French Canada. |
| 101000G-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. 230 v , 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 Alarm Systems |  |
| IO64G | 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. |
| IO64G-2-PG | One loop system with one 64-point loop installed. 230v, gray door, Portuguese. |
| IO64G-2-SP | One loop system with one 64-point loop installed. 230v, gray door, Spanish. |
| IO64GD | 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. |
| IO64G-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 Cards |  |
| i-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, $16 \times 2$-LED zones ( 4 programmable for sup). Mounts in cabinet to right of LCD display for zones 17-32. For iO1000 only. |
| D16L-iO-1 | LED Annunciator module, $16 \times 2$-LED zones (4 programmable for sup). Mounts in 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, 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. |

Accessories

| CTM | City Tie Module. 2-gang. Connection to a local energy fire alarm box. |
| :--- | :--- |
| MFC-A | Multifunction Fire Cabinet, $8^{\prime \prime} \times 14^{\prime \prime} \times 3.5^{\prime \prime}-$ red. | | SIGA-REL | Releasing Module |
| :--- | :--- |
| PT-1S | System Printer |
| BC-1 | Battery Cabinet. $14.0^{\prime \prime} \times 18.25^{\prime \prime} \times 7.25^{\prime \prime}$. Holds two 12V24A batteries. |
| BC-1R | Battery Cabinet Red. $14.0^{\prime \prime} \times 18.25^{\prime \prime} \times 7.25$ ". Holds two 12V24A batteries. |
| BC-1EQ | Seismic hardening Kit for iO series panels. Includes battery hardening for <br> BC-1 enclosure and components to harden panel internal components. |


| Programming Tools |  |  |  |  |  |  |
| :--- | :--- | :---: | :---: | :---: | :---: | :---: |
| iO-CU IO Series configuration and diagnostics utility. <br> 260097 RS232 cable, 4 conductor, DB9 PC interface. |  |  |  |  |  |  |

