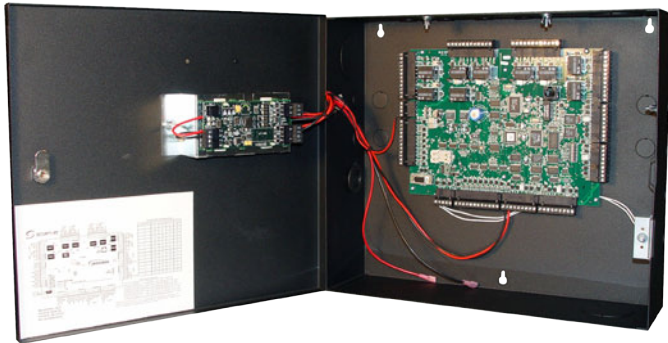


# Insignia (I-4000) Access Control Panel

## for SecurityInc Clarity V2

The Insignia I-4000 controller features state-of-the-art technology that provides flexibility and reliability for access control and alarm monitoring applications. Using a high-performance microprocessor and advanced memory techniques, the Insignia controller out-performs many of the controllers on the market today.



Insignia was developed to simplify new installations, and also operates as a drop-in replacement for currently installed access control systems (replaces N-1000-IV™ panels). Compatibility between the I-4000 controller and N-1000-IV™ means that previous training can be leveraged as a benefit to new applications, and support is still provided for current systems.

I-4000 controllers overcome the limitations of past technology with advanced features such as Ethernet connectivity, enhanced download speeds, and flash memory updates. The I-4000 also contains an abundance of on-board I/Os with more than sufficient power for each device.

## Main Features

A variety of communication options are available including RS232, RS485 and TCP/IP. With the ability to communicate at 10/100 Mbps over RS-485, or over RS-232 at speeds up to 57.6 Kbps, the Insignia controller provides the performance required for small or large systems.

- Supports up to four doors
- 12 and 5 VDC reader power at the controller (Rev G Board)
- 20 supervised alarm inputs (16 monitored, 3 unmonitored, 1 dedicated)
- Eight double pole/double throw (DPDT) relay outputs
- 450 mA auxiliary power provided per relay output
- Host communication: Ethernet (10/100 Mbps), RS-485 (38.4 Kbps), or RS-232 (57.6 Kbps)
- Flash memory for real-time program updates
- Supports 28,000 cards and 15,000 transactions simultaneously
- Real-Time Clock provides accurate time and handles Daylight-saving time automatically
- Programmable card format definition
- Support for up to four Wiegand keypads
- Up to four duress relays allowed
- Time zones allow relays to be automatically controlled
- Up to 64 schedules to control access, alarm inputs, and outputs
- Up to 64 custom-defined days
- Relay groups can be assigned individually per reader rather than only on the first reader or all readers
- Extended battery backup life
- Operation independent of the host computer
- Drop-in replacement for N-1000-IV™ systems currently installed and using RS-485 AckNak
- Comprehensive, two-year warranty



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## for SecurityInc Clarity V2

### Specifications

#### Size

8.25" x 10.75" x 0.8", Weight 1.3 lbs.

#### Operating Temperature

0° to 49° C

#### Storage Temperature

-40° to 66° C

#### Humidity

0 to 95% relative non-condensing

#### I-4000 Power

12 VDC ± 15%, 800 mA  
 Max. current consumption  
 3.78 Amp (I-4000 actual)  
 2.7 Amp (A-UPS-0250)

#### Reader Power

12 VDC ± 15%, 390 mA each  
 Max. current: 1.56 Amp

5 VDC ± 5%, 390 mA each  
 Max. current: 0.66 Amp

#### Output Power

12 VDC ± 15%, 390 mA each  
 Max. @ (50° C)

#### Battery Backup

Two 12 VDC 7 Ah batteries can provide up to 3.8 hr @ 2.5A

#### Communications

RS-232: 9-pin, PC-style serial port  
 24 AWG, 50 ft. max.

Ethernet: Removable Ethernet board connects directly to RS-232 port. Follows Ethernet standard specifications (Cat 5)

RS-485: Removable terminal connection  
 24 AWG, 4,000 ft. max.

#### Compliance Standards

UL 294

### Parts and Ordering Information

I-4000 Controllers	
<b>I-4000</b>	Insignia I-4000-PCB controller in enclosure with battery supervision board, (4) suppressors, (16) 2.2K end-of-line resistors, and utility CD
<b>I-4000-IP</b>	Insignia I-4000-PCB controller in enclosure with battery supervision board, ethernet interface board, (4) suppressors, (16) 2.2K end-of-line resistors, and utility CD
<b>I-4000-LPS</b>	Insignia I-4000-PCB controller in enclosure, (4) suppressors, (16) 2.2K end-of-line resistors, and utility CD. Less power supply
<b>I-4000-IP-LPS</b>	Insignia I-4000-PCB controller in enclosure with ethernet interface board, (4) suppressors, (16) 2.2K end-of-line resistors, and utility CD. Less power supply
<b>I-4000-PCB</b>	Insignia I-4000 control panel with no enclosure. Board only
I-4000 Components	
<b>ENC-1</b>	Universal Enclosure - Dust-proof, drip-proof enclosure with tamper switch and PS-24DC power supply
<b>IP-CARD</b>	Ethernet Interface Module - Provides 10/100 Mbps connectivity to an Ethernet network
<b>A-UPS-0250</b>	Battery Supervision Board - Provides power failover and battery management functions
<b>PS-24DC</b>	24v DC Power Supply - Provides power sufficient to power the control panel, locks, readers and keep the backup battery charged
<b>A-SUP-1000</b>	Suppression Kit (4 Pack) - Protects the panel and associated devices from power surges common to many locking devices
<b>CON-PLATE</b>	Mounting Plate - Mounting plate allows an Insignia control panel to be mounted in an existing N-1000™ enclosure
<b>485-COM-MOD</b>	The 485-COM-MOD is an RS232-RS485 communications device which provides connectivity from the host software to the unit and then to a 485 Bus (Drop-line). This item used when more than one Insignia controller is connected from one communications point.
<b>IP-COM-MOD</b>	The IP-COM-MOD is used in conjunction with the 485-COM-MOD when you require Ethernet communications for more distance. This communication module provides the capacity to connect up to 15 Insignia controllers via Ethernet.
<b>SERIAL-100</b>	The SERIAL-100 cable provides 100 feet of distance from the HOST PC software directly to the Insignia controller via RS232. A standard 9 pin M/F cable completes the connection.
<b>SERIAL-USB-1</b>	The SERIAL-USB-1 converter provides quick and easy USB to RS232 communications to the Insignia controller using PC-based USB port configuration. It can be plugged directly into the controller if a short distance is required, or it can be used with the SERIAL-100 kit for more flexibility.
I-4000 Battery Backup	
<b>BAT-12V-7A</b>	Backup Battery - 12 VDC 7 amp-hour battery



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