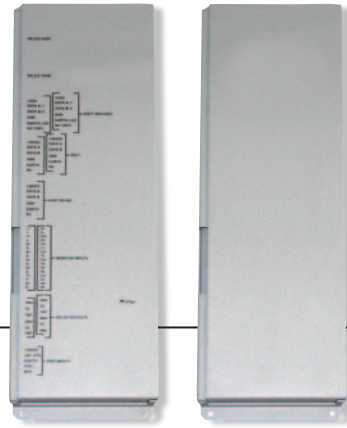


STAR® I

STAR I Controller with MIRO Options



Advanced Technology Controller

Honeywell STAR I Controller redefines access control technology by offering the latest innovative controller that utilizes surface-mount technology. The STAR I controller incorporates this state-of-the-art enhanced digital technology which provides more powerful features, all on one small single board. Easy installation, modular components, and an affordable price makes Honeywell STAR I Controller the right solution for managing even the most demanding access control applications. With a 32-bit Intel® microprocessor built-in, the controller provides fast and accurate control of up to eight doors. Other advanced features include: scalable door architecture, card capacity for up to 50,000 cardholders; independent PIN entry for each card holder; assignable door lock relays, 16 on-board monitor inputs / 4 relay outputs (MIRO), built-in battery charging circuit for low power installs, on-board support for 2-Wiegand readers without additional physical interface, elevator control and optional Ethernet interface.

Personality chip for easy upgrades

Honeywell STAR I Controller modular architecture allows flexible system design options for tailoring secure and dependable access control solutions for any facility, regardless of size. Base two-door system can be field upgraded to a 8-door unit with a simple personality chip change. Add Wiegand, RS-485 or other advanced features when you want and when you need it. Support for proximity, magnetic stripe, keypad, biometric, smartcard and third party (Wiegand) reader access control

technologies allows for easy integration of custom applications at each door. Each unit can monitor 32 inputs and control 16 relay outputs using additional MIROs. A Honeywell WIRO 4/8/4 Wiegand reader and I/O module allows facilities with more than two third-party Wiegand readers to upgrade to Honeywell Integrated Security's advanced technology. They also allow a site to keep the current wiring and reader / card relationships along with adding 8 additional monitor inputs and 4 relay outputs. An on-board plug-in port is included for optional 10BaseT Ethernet CoBox Micro interface.

Easy installation

Installation time and cost have been greatly reduced with the advanced technology offered in the STAR controller. Switchable selectable baud rates and addressing can now be done directly on the panel rather than through a laptop or terminal. In addition, twisted-pair wiring (RS-485 data) greatly reduces the cost and difficulty of installing an access control system and allows up to a 4,000 foot distance between Host and Honeywell STAR I Controller. It also provides the same distance between a Controller, MIROs, WIUs and readers. Common power supplies and batteries can take advantage of the controllers built-in charging circuitry for low power installations. While providing an advanced access control solution, Honeywell STAR controller is also economically priced so any organization can implement an advanced multiple technology system at a cost similar to less secure single technology systems.

FEATURES

- Fully integrated access control system
- Base two-door system can be field upgraded to a 8-door unit with a simple personality chip change
- Advanced digital technology with embedded Intel® 32-bit microprocessor provides fastest response time in the industry
- Support for multiple access technologies:
 - Digital proximity
 - Magnetic Stripe
 - Smart Card
 - Keypad
 - Biometrics
- On-board integrated MIRO 16/4
- Can monitor 32 inputs and control 16 outputs with additional MIROs
- Modular MIRO options for easy customization and expansion:
 - MIRO 2/16, 32/0, 4/2, WIRO 4/8/4
- Switch selectable Baud rate and address for ease of installation
- Cardholder capacity: 50,000
- S-NET dual twisted-pair wire installation
- 2 Wiegand ports on-board; can be expanded by additional Wiegand external board
- Modular architecture allow for easy upgrade to future technologies
- Independent PIN codes
- Available as a UL-294 listed system
- Hard/soft anti-passback with "forgiveness"
- Manual lock/unlock from terminal or host
- Normal and reverse lock operation
- Printer interface
- Built-in battery charger for low powered systems
- Host Communications
 - RS-232
 - RS-485
 - Dial-up
 - Optional Ethernet LAN module



STAR I Controller with MIRO Options

CONTROLLER SPECIFICATIONS

Database:

Scalable architecture through personality chip:

- 2, 4, & 8-door units, all use base platform with only a personality chip change to increase door capacity
- Cardholders: 50,000
- Flash programming for firmware revision updates
- Access codes: 120
- User defined holidays: 20
- Time codes: 128
- Actions: 32
- Authorization levels: 6
- Individual operator IDs: 8
- Transaction buffer:
 - 5,000 maximum in security management system port
 - 100 circular in Terminal port

Monitor Inputs and Relay Outputs:

- On-board MIRO with 16 four state monitor inputs and 4 form C, N/O or N/C relay outputs
- MIRO expansion: up to 9 units per controller, with max. support for 32 monitor inputs and 16 relay outputs
- Relay outputs: zone mode, alarm, latched alarm, and locks

Interface and Communication Specifications:

- Security Management System communication: RS-485 or RS-232
 - Optional host communication provided with addition of on-board Ethernet adapter
- Terminal Interface:
 - ASCII through separate RS-232 terminal port
 - Switch selectable baud rate and address for ease of installation (there is no longer a need for a terminal or laptop in order to connect to the host)
- Log printing through terminal port
- Microprocessor: Intel 32-bit industrial microprocessor
- Self-protection: power input failures, controller tampering
- Direct to reader Wiegand interface: 2 readers directly to controller
- S-NET to Honeywell Integrated Security readers and controller peripherals
- Dial-up communication

Dimensions:

- Board: 15" H x 5" W x 1.25" D (38.1cm H x 12.7cm W x 3.2 cm D)
- Enclosure: 16.75" H x 5.63" W x 1.88" D (42.6cm H x 14.3cm W x 4.8cm D)

Environment:

- Temperature: -7° to 49° C / 20° to 120° F
- Humidity: 0 to 95% non-condensing

Power:

- On-board output charging circuit for 12 V, 12 Amp hour, lead acid gel cell batteries
- Board only input: 16-28 VDC (16-20 VAC) for board operation without charging
- Input for battery charging circuit: 20 - 28 VDC (16-20 VAC), 1A (max. charging)
- Backup battery operating range: 10.5 - 14 VDC
- Consumption: less than 5 watts

Wiring:

- Dual twisted pair (shielded communication)
- Wiegand interface:
 - supports 2 physical Wiegand connections through 3 pair (shielded communication)
- Connection of 4 Wiegand units through WIU using S-Net
- 2, 4, or all 8 doors may be Wiegand
- S-NET data channel up to 4,000'
- Mounting: board-only or with optional enclosures
- Security Management System:
 - 9-pin D-sub DTE
 - RS-485 Host: Phoenix type
 - RJ-45 with optional Ethernet interface
- Terminal port: 9-pin, D-sub DTE
- S-NET Communications: 4 Phoenix type, first 2 S-Net ports double as Wiegand interface
- Power and input battery: Phoenix type

Diagnostics:

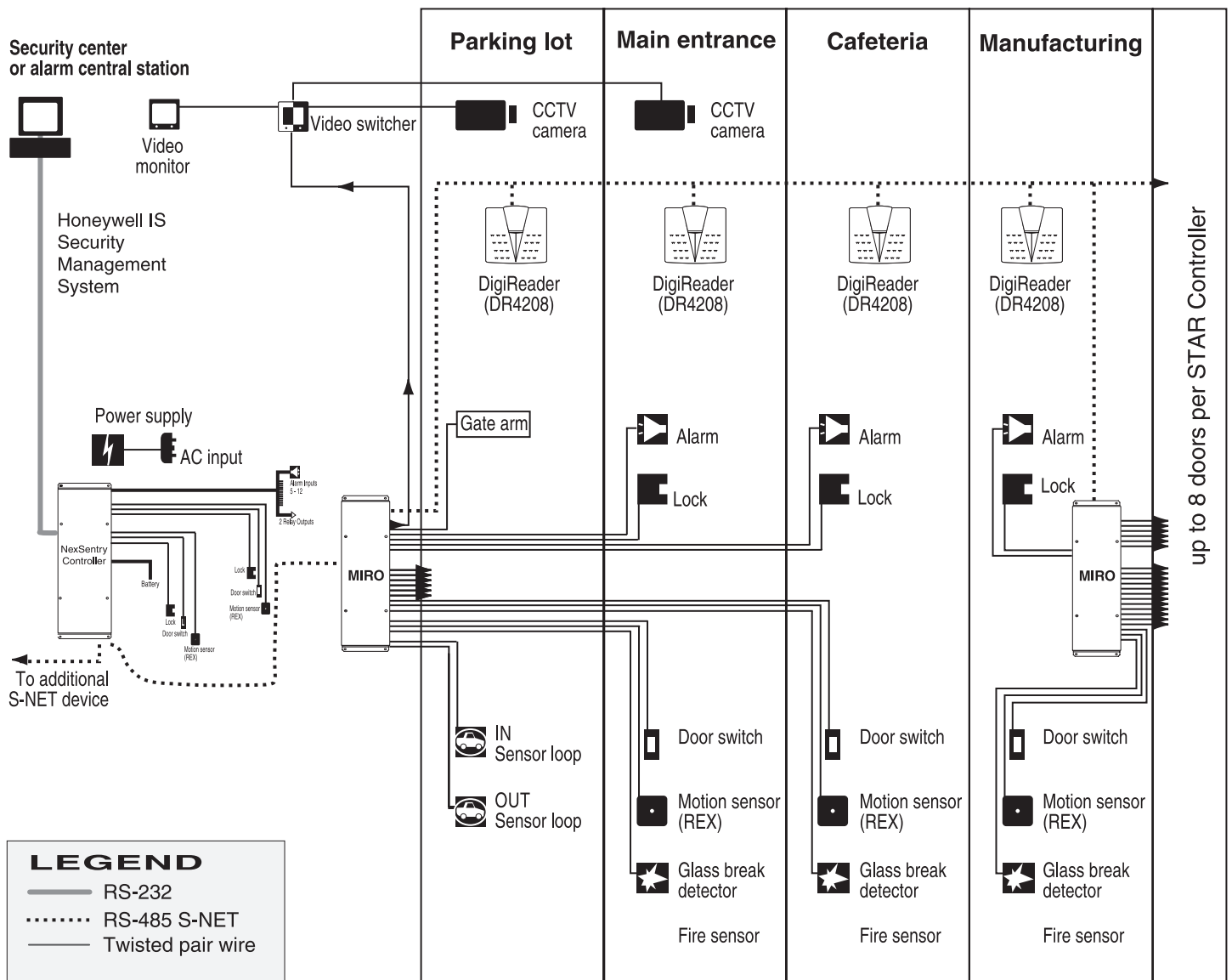
- LED status lights:
 - Operational status of the controller
 - Relay output status
 - Comm. TX/RX traffic through host, serial terminal, S-Net and operational Ethernet interface
- Internal Diagnostics/System Configuration through terminal port

BENEFITS

- Modular architecture allow for easy upgrade to future technologies
- Advanced digital technology with embedded Intel® 32-bit microprocessor provides fast response times
- Independent PIN codes
- Available as a UL-294 listed system
- Hard/soft anti-passback with "forgiveness"
- Normal and reverse lock operation
- Log Printer interface
- Built-in battery charger for low-powered systems
- Easy installation
- Personality chip for easy upgrades

MIRO OPTIONS AND SPECIFICATIONS

	WIRO 4/8/4	MIRO 32/0	MIRO 2/16	MIRO 4/2
Relay Outputs	4 Form C Relays	None	16 Form C Relays	2 Form C Relays
Monitor Inputs	8 four-state monitor inputs	32 four-state monitor points	2 four-state monitor inputs	4 four-state monitor points
Board Dimensions	5" H x 7" W x 1.25" D (12.7cm H x 17.8cm W x 3.2cm D)	5" H x 7" W x 1.25" D (12.7cm H x 17.8cm W x 3.2cm D)	5" H x 7" W x 1.25" D (12.7cm H x 17.8cm W x 3.2cm D)	Mounted in MSM-type enclosure
Enclosure Dimensions	5.75" H x 16.97" W x 1.75" D (14.6cm H x 42.95cm W x 4.45cm D)	5.75" H x 16.97" W x 1.75" D (14.6cm H x 42.95cm W x 4.45cm D)	5.75" H x 16.97" W x 1.75" D (14.6cm H x 42.95cm W x 4.45cm D)	5.88" H x 7.56" W x 1.33" D (14.9cm H x 19.2cm W x 3.4cm D)
Humidity	0 to 95% non-condensing			
Wiegand Reader Interface	4-6 wire Wiegand Interface Ports	N/A	N/A	N/A
Mounting	Board only or in enclosure			MSM-type enclosure
Temperature	20° to 120° F / -7° to 49° C			
Power	Source: Twisted pair (shielding optional) connected to Controller via S-Net			
Wiring	Monitor Inputs: Phoenix-type Connectors: Twisted pair (shielding optional) Relay Outputs: Phoenix-type	Monitor Inputs: Phoenix-type Connectors: Twisted pair (shielding optional) Relay Outputs: None	Monitor Inputs: Phoenix-type Connectors: Twisted pair (shielding optional) Relay Outputs: Phoenix-type	Monitor Inputs: Phoenix-type Connectors: Twisted pair (shielding optional) Relay Outputs: Phoenix-type
Communication	S-Net through 2 (two) RS-485 connectors via the twisted pair (shielding optional) wiring			





STAR I Controller with MIRO Options

ORDERING

Order #	Description
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STAR I Series Controller (SEEP Protocol)

92410250020	Star I Controller – Supports 2 Doors, 50,000 Cardholders, 32/16 MIRO Capacity, Elevator Control - 24 Floors Manually Configured Through Terminal Interface
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STAR I & II Series Controller Personality Chip Sets

92410450020	Star I & II Controller – 4 Door Chip Set; Supports 4 Doors (Requires Star I or Star II Controller)
92410850020	Star I & II Controller – 8 Door Chip Set; Supports 8 Doors (Requires Star I or Star II Controller)

Cabinet Options for Star Series Controllers (Controller Not Included)

92410000300	Star Controller Modular Enclosure
92410000400	Modular Double Board Enclosure for WIRO 4/8/4, MIRO 32/0 and MIRO 2/16
92410086000	Large Cabinet - Space for 3 Full Height or 6 Half Height Boards

MIRO Options

92410034840	WIRO 4/8/4 8 Inputs / 4 Outputs & 4 Wiegand Ports (Board Only)
92410020000	MIRO 16/8 16 Inputs / 8 Outputs (Board Only)
92410020200	MIRO 16/8 16 Inputs / 8 Outputs (with Enclosure)
92410026000	MIRO 32/0 32 Inputs / 0 Outputs (Board Only)
92410027000	MIRO 2/16 2 Inputs / 16 Outputs (Board Only)
92410025200	MIRO 4/2 4 Inputs / 2 Outputs (Board in Modular Enclosure)

Order #	Description
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Power Options

92902031000	PI-1, Power Inserter (24V) with Power Cable – 115V
92902032000	PI-2, Power Inserter (24V) with Power Cable – 230V
92410024055	PI-LC, Universal Low-Cost Power Supply – 110/220V
92422230000	UL-PS UL Power Inserter (24V) – 115V for UL294 Star System

Network Options

92000151000	Cobox Universal Thin Server (110/220 VAC)
92410000020	Micro CoBox Ethernet Interface

Communications - Conversion Solutions

92043020000	NexLine Coax Adaptor
92043060000	NexLine Plus MSM Replacement & Coax Converter
92043051001	NexStar RS-232 Adaptor
92043051000	NexStar High Speed Multiplexer

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For more information: www.honeywellaccess.com

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