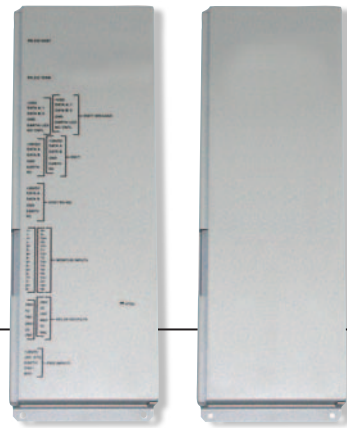


## STAR® II

### STAR II Controller with MIRO Options



#### Advanced Technology Controller

Honeywell STAR II Controller redefines access control technology by offering the latest innovative controller that utilizes surface-mount technology. The STAR II 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 STAR II 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 sixteen doors. Each STAR II controller comes with NSMLite, a Graphical User Interface software (GUI) that is used to configure the controller, doors, points, cardholders and elevator configurations. Other advanced features include: scalable door architecture, card capacity for up to 100,000 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

STAR II 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 16-door unit with a simple personality chip change. Add readers 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 255 inputs and control 96 relay outputs using additional MIROs. A WIRO 4/8/4 Wiegand reader and I/O module allows facilities with more than two third-party Wiegand readers to upgrade to Honeywell'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 STAR II 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, 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 16-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 255 inputs and control 96 outputs with additional MIROs
- Modular MIRO options for easy customization and expansion:
  - MIRO 32/0, 2/16, 4/2,
  - WIRO 4/8/4
- Switch selectable Baud rate and address for ease of installation
- Elevator control
- Cardholder capacity: 100,000
- S-NET dual twisted-pair wire installation
- 2 Wiegand ports on-board; can be expanded by additional Wiegand external board
- Host Communications
  - RS-232
  - RS-485
  - Dial-up
  - Optional Ethernet LAN module
- NexSentry Manager Lite

# STAR® II

## STAR II Controller with MIRO Options

### CONTROLLER SPECIFICATIONS

#### Database:

Scalable architecture through personality chip:

- 2, 4, 8, & 16-door units, all use base platform with only a personality chip change to increase door capacity
- Cardholders: 100,000
- Flash programming for firmware revision updates
- Access codes: 120
- User defined holidays: 20
- Time codes: 128
- Actions: 64
- Authorization levels: 6
- Individual operator IDs: 8
- Transaction buffer:
  - 5,000 maximum in security management system port
  - 100 circular in Terminal port
- Elevator: 96 floors

#### Monitor Inputs and Relay Outputs:

- On-board MIRO with 16 four state monitor inputs & 4 form C, relay outputs
- MIRO expansion: up to 15 units per controller, with max. support for 255 monitor inputs and 96 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
- NSMLite

#### 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, 8, or all 16 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 & input battery: Phoenix type

#### Diagnostics:

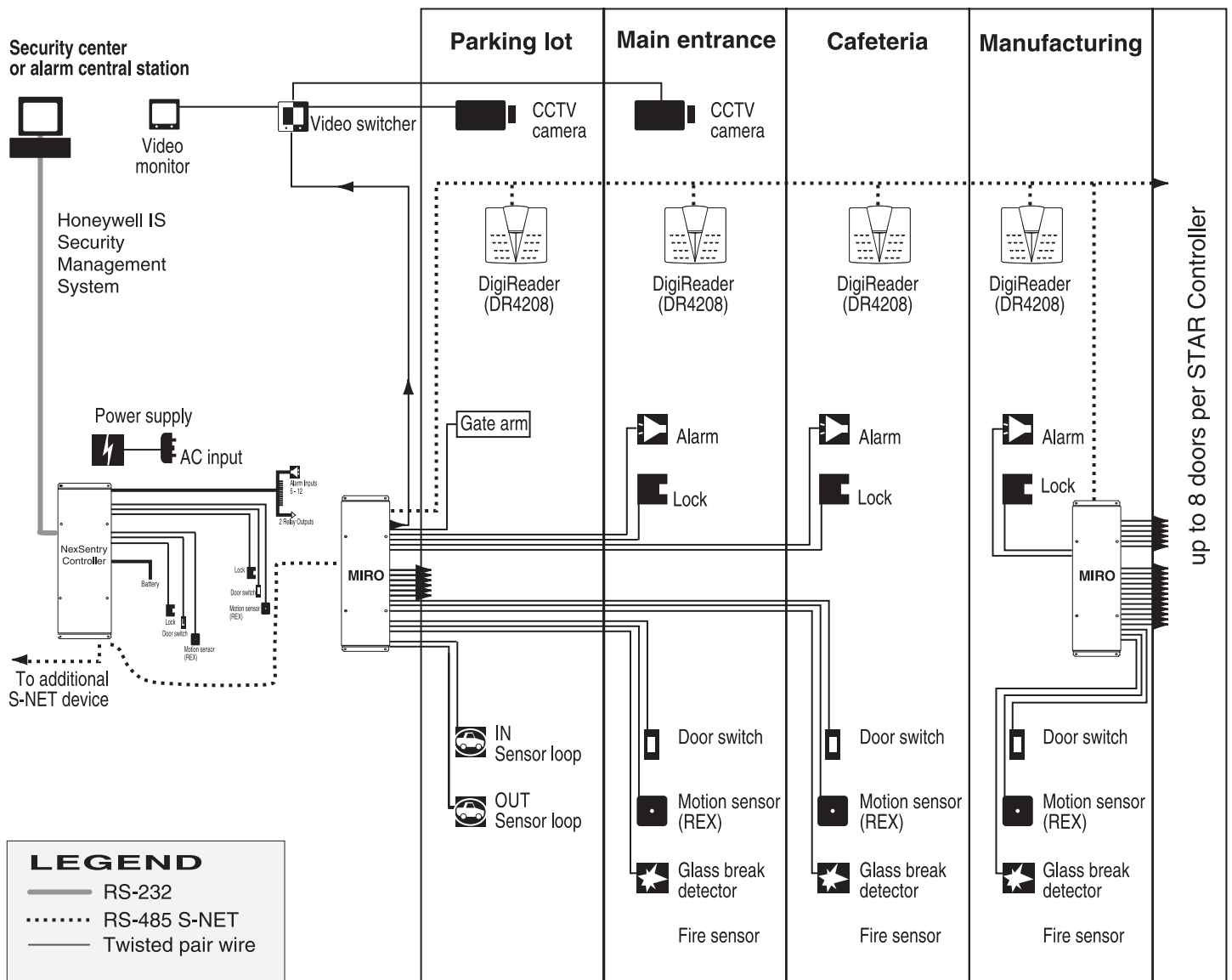
- LED status lights:
  - Operational status of the controller
  - Relay output status
  - Comm. TX/RX traffic through host, serial terminal, S-Net and operational Ethernet interface
- Internal Diagnostics/System Configuration through terminal port

### 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
- 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
<b>Relay Outputs</b>	4 Form C Relays	None	16 Form C Relays	2 Form C Relays
<b>Monitor Inputs</b>	8 four-state monitor inputs	32 four-state monitor points	2 four-state monitor inputs	4 four-state monitor points
<b>Board Dimensions</b>	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
<b>Enclosure Dimensions</b>	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)
<b>Humidity</b>	0 to 95% non-condensing			
<b>Wiegand Reader Interface</b>	4-6 wire Wiegand Interface Ports	N/A	N/A	N/A
<b>Mounting</b>	Board only or in enclosure			MSM-type enclosure
<b>Temperature</b>	20° to 120° F / -7° to 49° C			
<b>Power</b>	Source: Twisted pair (shielding optional) connected to Controller via S-Net			
<b>Wiring</b>	<b>Monitor Inputs:</b> Phoenix-type <b>Connectors:</b> Twisted pair (shielding optional) <b>Relay Outputs:</b> Phoenix-type	<b>Monitor Inputs:</b> Phoenix-type <b>Connectors:</b> Twisted pair (shielding optional) <b>Relay Outputs:</b> None	<b>Monitor Inputs:</b> Phoenix-type <b>Connectors:</b> Twisted pair (shielding optional) <b>Relay Outputs:</b> Phoenix-type	<b>Monitor Inputs:</b> Phoenix-type <b>Connectors:</b> Twisted pair (shielding optional) <b>Relay Outputs:</b> Phoenix-type
<b>Communication</b>	S-Net through 2 (two) RS-485 connectors via the twisted pair (shielding optional) wiring			



# STAR® II

## STAR II Controller with MIRO Options

### ORDERING

Order #	Description
<b>STAR II Series Controller (CHIP Protocol)</b>	
<b>92410250030</b>	Star II Controller – Supports 2 Doors, 100,000 Cardholders, 256/96 MIRO Capacity, Elevator Control
<b>STAR I &amp; II Series Controller Personality Chip Sets</b>	
<b>92410450020</b>	Star I & II Controller – 4 Door Chip Set; Supports 4 Doors (Requires Star I or Star II Controller)
<b>92410850020</b>	Star I & II Controller – 8 Door Chip Set; Supports 8 Doors (Requires Star I or Star II Controller)
<b>92411650030</b>	Star II Controller – 16 Door Chip Set; Supports 16 Doors, 100,000 Cardholders, 255/96 MIRO Capacity, Elevator Control (Requires Star II Controller)
<b>Cabinet Options for Star Series Controllers (Controller Not Included)</b>	
<b>92410000300</b>	Star Controller Modular Enclosure
<b>92410000400</b>	Modular Double Board Enclosure for WIRO 4/8/4, MIRO 32/0 and MIRO 2/16
<b>92410086000</b>	Large Cabinet - Space for 3 Full Height or 6 Half Height Boards
<b>MIRO Options</b>	
<b>92410034840</b>	WIRO 4/8/4 8 Inputs / 4 Outputs & 4 Wiegand Ports (Board Only)
<b>92410020000</b>	MIRO 16/8 16 Inputs / 8 Outputs (Board Only)
<b>92410020200</b>	MIRO 16/8 16 Inputs / 8 Outputs (with Enclosure)
<b>92410026000</b>	MIRO 32/0 32 Inputs / 0 Outputs (Board Only)
<b>92410027000</b>	MIRO 2/16 2 Inputs / 16 Outputs (Board Only)
<b>92410025200</b>	MIRO 4/2 4 Inputs / 2 Outputs (Board in Modular Enclosure)

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

#### Network Options

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

#### Communications - Conversion Solutions

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

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For more information: [www.honeywellaccess.com](http://www.honeywellaccess.com)

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