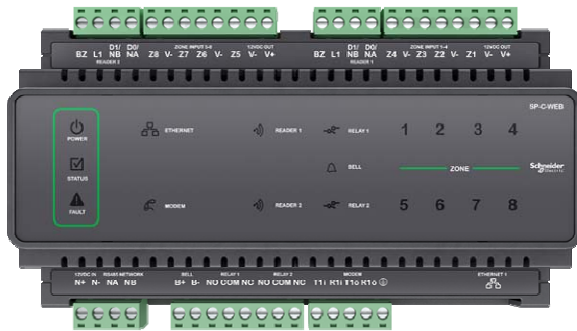# Security Expert WEB System Controller

The Security Expert WEB System Controller is the central processing unit responsible for monitoring, managing, and controlling security and access control in the Security Expert system from a browser interface.

Feature Highlights

- Web based architecture for cross-platform access and flexible configuration

- Intuitive wizard-driven interface for quick and easy deployment

- Simple, intuitive user and event reporting

- Compatible with all Security Expert expander modules and accessories

- 2 reader ports, configurable for either Wiegand or RS-485 reader operation

- 8 high security monitored inputs

- 1 high current monitored bell output

- 2 high current Form C relay outputs

- Comprehensive front panel LED indicators provide device status at a glance

- Firmware upgradable directly from the SP-C-WEB interface

- Designed for use with industry standard DIN Rail mounting

Communication

RS-485 communication interface, onboard 2400bps modem, and a 10/100 Ethernet communications port provides a complete solution for system expansion, offsite monitoring, system communication and integration.

- IP reporting functionality using the ArmorIP protocol, Contact ID over IP, SIA over IP and full text reporting methods

- Full 10/100 compliant network interface allows the connection of the controller to all networks at the maximum capable signaling rate

Flexible Reader Support

Provides 2 reader ports, each of which can be independently configured for either Wiegand, RS-485, or OSDP* operation, allowing the connection of up to 4 readers controlling 2 doors.

Choose RS-485 readers for fast, flexible, secure communication, or Wiegand for compatibility with all standard access control systems. RS-485 readers provide the added benefits of being easier and more cost effective to wire and deploy, and allow for direct integration with Security Expert systems enabling you to make changes on the fly once readers are installed. RS-485 also allows for longer cable runs and offers a simpler firmware update process.

* Refer to the Application Note AN-254 Configuring OSDP Readers in Security Expert, available from the Schneider Electric website.

Integrated Arming/Disarming

Featuring advanced integration of arming and disarming solutions for control of up to 32 alarm areas:

- Deny access to a user based on the status of the area and allow the user to control the area they are entering, in turn reducing false alarms

- Prevent access to a keypad using a card and PIN function or allow card presentation to automatically login the user at the associated keypad

- Arm large numbers of areas using area groups

- Implement vault control areas to restrict and manage the time delayed access and unlocking of vault areas in banking facilities without the need for extra hardware control devices

- Disarm an area associated with an elevator floor on access or prevent the user from gaining access to the floor based on the area status associated with the floor

Integrated Access Control

Providing a highly sophisticated access control solution with large user capacity and extensive features:

- Utilize multiple access levels to manage users over scheduled periods and time zones

- Assign door groups, menu groups, area groups, floor groups and elevator groups to an access level for flexible user management. Each user can have multiple groups in multiple access levels

- Multiple card presentation options allow the use of access control cards, tags or other credentials to arm and disarm areas associated with doors

- Count users entering an area then arm the area when the count reaches a terminal number or deny access based on a maximum user count

Connectivity and System Expansion

Expansion of the Security Expert system with onboard local inputs and outputs allows convenient cost effective expansion without the increased cost of modules for simple system functions:

- 8 onboard inputs can each be programmed to require EOL (End Of Line), dual EOL, or direct contact

- Bell/Siren output onboard with fully monitored operation

- 2 high current Form C relays onboard

- 2 integrated reader ports, configurable for either Wiegand or RS-485 reader operation

- System expansion is achieved by connecting additional expander modules

Programmable Functions

Programmable functions allow for the use of special applications that are configured by the controller for logic, area, door and many other controllable devices:

- Perform actions when a particular event or operation occurs such as setting the room temperature based on the number of people in an area, adjusting the internal lighting levels based on a sensor reading, or unlocking doors in the event of a fire alarm
- Process logic functions to allow complex equations to be evaluated using the special internal memory registers and output status
- Control of doors, areas, elevators and outputs can be easily programmed and managed

Offsite Reporting Services

The controller incorporates a choice of offsite reporting options.

- Send IP based reporting protocols using the onboard Ethernet and ArmorIP protocol.
- Report alarms using Contact ID or SIA Level 2.

Third Party Support

- Easily link the Security Expert System with intelligent SALLIS or Aperio wireless locking solutions
- Onboard support for communication protocols such as C-BUS and Savant for integrating lighting controls

Upgradable Firmware

Firmware upgradable directly from the SP-C-WEB interface.

Technical Specifications

Operating Voltage	11-14V DC
Operating Current	120mA (typical)
DC Output (Auxiliary)	10.45-13.85VDC 0.7A (typical) electronic shutdown at 1.1A
Bell DC Output (Continuous)	10.4-13.45VDC 8 Ohm 30W Siren or 1.1A (Typical) Electronic Shutdown at 1.6A.
Bell DC Output (Inrush)	1500mA
Total Combined Current*	3.4A (max)
Electronic Disconnection	9.0VDC
Communication (Ethernet)	10/100Mbps Ethernet communication link Port 80 TCP/IP HTTP (Web Interface) Fixed Port 9450 TCP/IP Binary (Module Network) Configurable Port 9460 UDP/IP Binary (Module Network) Configurable
Communication (RS-485)	3 RS-485 communication interface ports: 1 for module communication and 2 for reader communication
Communication (Modem)	2400bps modem communication
Readers	2 reader ports** that can be configured for either Wiegand or RS-485 reader operation allowing the connection of up to 4 Wiegand readers or 4 RS-485 capable readers providing entry/exit control for two doors
Inputs (System Inputs)	8 high security monitored inputs
Outputs	4 50mA (max) open collector outputs for reader LED and beeper or general functions
Relay Outputs	2 Form C relays - 7A N.O/N.C. at 30 VAC/DC resistive/inductive
Operating Temperature	0˚-50˚C (32˚ - 122˚F)
Storage Temperature	-10˚- 85˚C (14˚ - 185˚F)
Humidity	0%-93% non-condensing, indoor use only (relative humidity)
Dimensions (L x W x H)	156 x 90 x 60mm (6.14 x 3.54 x 2.36")
Weight	376g (13.26oz)

*The Total Combined Current refers to the current that will be drawn from the external power supply to supply the Controller and any devices connected to the Controller's outputs. The Auxiliary outputs and Bell output are directly connected via electronic fuses to the N+ N- input terminals, and the maximum current is governed by the trip level of these fuses.

**Each reader port supports either Wiegand or RS-485 operation, but not at the same time. If combining Wiegand and RS-485 technologies, they must be connected on separate ports.

The size of conductor used for the supply of power to the unit should be adequate to prevent voltage drop at the terminals of no more than 5% of the rated supply voltage.

Ordering Information

SP-C-WEB	Security Expert WEB System Controller

Regulatory Notices

Federal Communications Commission (FCC)

FCC Rules and Regulations CFR 47, Part 15, Class A.

This equipment complies with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference; (2) This device must accept any interference received, including interference that may cause undesired operation.

Industry Canada

ICES-003

This is a Class A digital device that meets all requirements of the Canadian Interference-Causing Equipment Regulations.

CAN ICES-3 (A)/NMB-3(A)

RCM (Australian Communications and Media Authority (ACMA))

This equipment carries the RCM label and complies with EMC and radio communications regulations of the Australian Communications and Media Authority (ACMA) governing the Australian and New Zealand (AS/NZS) communities.

CE – Compliance with European Union (EU)

Conforms to European Union (EU) Low Voltage Directive (LVD) 2014/35/EU, Electro-Magnetic Compatibility (EMC) Directive 2014/30/EU and RoHS Recast (RoHS2) Directive: 2011/65/EU.

This equipment complies with the rules of the Official Journal of the European Union for governing the Self Declaration of the CE Marking for the European Union as specified in the above directive(s).

UL/ULC (Underwriters Laboratories)

- UL 294 for Access Control System Units
- UL1610 for Central-Station Burglar-Alarm Units
- CAN/ULC S319 for Electronic Access Control Systems
- CAN-ULC S304 for Signal Receiving Centre And Premise Burglar Alarm Control Units
- CAN/ULC S559 for Fire Signal Receiving Centres And Systems

Schneider Electric | Building Business   www.schneider-electric.com/buildings
Trademarks and registered trademarks are the property of their respective owners.

April 2018