

Intelligent Single Loop Life Safety Control Panel



Overview

EST's QS1 life safety control panel brings big-system intelligent control to small applications. Designed for easy setup and simple installation, QuickStart lives up to its name in every respect. QS1's exclusive *QuickStart* auto-learn function, and the option of configuring the panel using convenient front panel programming or from a PC, makes short work of system setup. Devices come on-line in no time as well, thanks to QS1's built-in barcode scanner port. A simple pass of the optional scanner is all it takes to store device information in the QuickStart database. The scanner can also be used for quick and easy text entry when assembling custom messages.

QS1's setup routine is deceptively simple, considering this system's robust features. Supporting up to 250 intelligent detectors and modules, QS1 takes full advantage of EST's exclusive Signature Series technology, which provides electronic addressing, automatic device mapping, environmental compensation, and true multisensor detection.

QuickStart's innovative design makes it easy to add a dialer or extra auxiliary relays. Quick-Lok option cards snap onto QS1's easily-accessible DIN mounting rails. QS1 also supports as many as eight remote annunciators and up to 30 programmable front panel switches with dual LEDs for system control and display.

QS1 is as simple to operate as it is to set up. Its large 14-line backlit LCD display provides easy-to-understand details concerning up to 1,000 system events, while bright system status LEDs and large, tactile control buttons present the user with a clean, crystal clear interface. Four password levels limit control and information retrieval to authorized personnel. A priority access keyswitch gives Level 2 access without a password to management and emergency personnel.

Standard Features

- Supports up to 250 Signature Series intelligent devices
- Combines the Signature intelligent releasing module with Signature multisensor detectors for reliable suppression
- Failsafe mode ensures uncompromised reliability
- Class A (Style 7) or Class B (Style 4) wiring options
- Capacity for eight serial annunciators
- Four built-in system relays
- Optional dual line dialer supports Contact ID and 4/2 formats
- Three methods of programming: QuickStart "auto-learn," front panel and personal computer (PC)
- Supports optional barcode scanner for direct device data entry
- Optional bank of 30 front panel switches with dual LEDs
- Up to 20 adjustable pre-alarm settings for Signature smoke detectors
- Wallboxes available in red or gray with optional trim ring for semi-flush mounting.
- Large 14-line (224 character) backlit LCD display
- Four password levels, plus priority access keyswitch
- Message routing by event type or by individual message
- Alarm sensitivity by time of day or manual selection
- 1,000 event history buffer, plus alarm history counter
- 6 amp Power Supply, 4.75 amps available for external use
- Envoy graphics compatible
- Compare utility identifies system changes and simplifies testing

Application

Thanks to its flexibility and simple setup and operation, QS1 is ideal for new installations in schools, apartment buildings, hospitals, office buildings, and retail facilities.

The benefits brought by QS1 to retrofit applications underscores the true potential of this powerful system. As an intelligent panel, QS1 supports Signature Series devices, which can use existing wiring in most retrofit applications. This makes upgrading from a conventional system to analog control a simple operation with minimal disruption to normal operations at the site.

| Which Quickstart Panel is right for you? | QSC | QS1 | QS4 |
|---|-------------|-------------|-------------|
| Signature Series devices supported | 0 | 1 x 250 | 4 x 250 |
| Conventional Class B circuits supported | 3 x 16 | 0 | 3 x 16 |
| Conventional Class A circuits supported | 5 x 8 | 0 | 5 x 8 |
| LCD display (lines x characters) | 4 x 20 | 14 x 16 | 14 x 16 |
| Optional Zone Switch/LEDs on front panel | 2 x 30 | 1 x 30 | 2 x 30 |
| Option card spaces | 5 or 12 | 1 | 5 or 12 |
| For more information, see Data Sheet | 85005 -0112 | 85005 -0113 | 85005 -0114 |

Operation

Indicators

1. Text display and controls: Displays system messages, status information, and programming menus. Arrow buttons move the display cursor.



- 2. Alarm LED: Indicates a fire or life threatening emergency.
- **3. Supervisory LED:** Indicates an off-normal condition with the fire suppression system or related equipment.
- Disable/Test LED: Indicates part of the system is disabled or being tested. Disabled components also signal a system trouble.
- 5. Monitor LED: Indicates the operation of an ancillary system function (door closures, fan pressure switches).
- 6. **Trouble LED:** Indicates an off-normal condition or wiring fault that compromises the integrity of the system.
- 7. Ground Fault LED: Indicates a ground fault in the system wiring. Ground faults also signal a system trouble.
- 8. CPU Fail LED: Indicates an unexpected reboot or failure with the microprocessor. CPU failures also signal a system trouble.
- 9. Power LED: Indicates the panel has power.
- **10. Help button:** Provides additional information about the device selected on the display.
- **11. Status button:** Displays the Status Menu from which you can identify active or disabled points in the system.
- 12. Panel Silence/Acknowledge button and LED: Acknowledges all events posted in the display queues and turns off the panel buzzer. The panel silenced LED indicates that off normal events have been acknowledged.

CPU / LCD Display

The QS1 front panel display provides 14 lines by 16 characters of text detailing event, device, diagnostic, and programming information. Its large backlit LCD screen is easy to read and always provides at-a-glance indication of the system's state of operation.

The CPU/Display Unit houses the CPU card and mounting space for one optional LED/Switch card.

Specifications

| Control Panel | Current: Standby -199 mA; Alarm - 235 mA |
|---|--|
| Remote annunciator (Full control versions) | Current: Standby - 154 mA; Alarm - 166 mA |
| SRA Series | Current: Standby - 70 mA; Alarm - 90 mA |
| Operating environment | Temperature: 32–120 °F (0–49 °C) Humidity: 93 %RH, non-condensing |

Failsafe Mode

If the CPU loses communication with other circuit cards, the power supply card continues to monitor the system for any alarm events. If an alarm occurs on any device or circuit during a communications failure, the power supply activates all alarm outputs and instructs the dialer to transmit a default alarm message to the monitoring station.

Controls

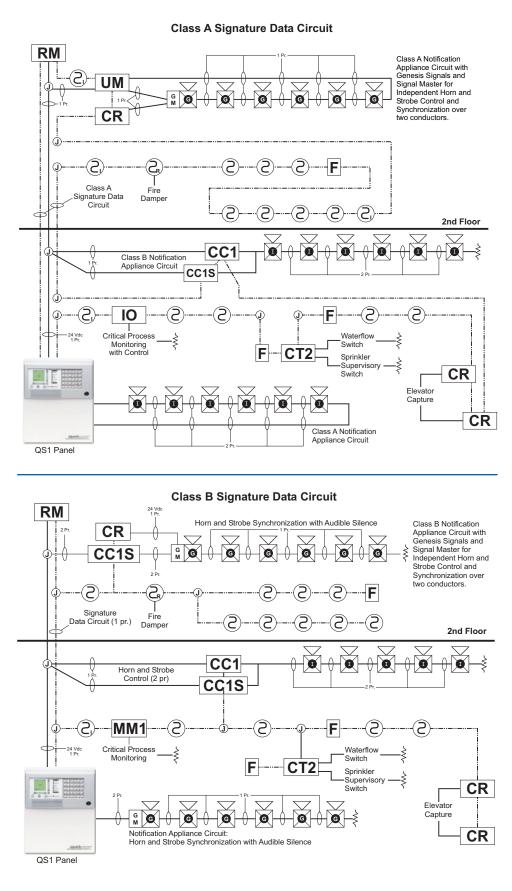
13. Reset button:

Allows devices or zones in alarm or trouble to restore to their standby condition. The LED indicates that the panel is resetting.



- 14. Alarm Silence button: Turns active notification appliances off depending on panel programming. Pressing Alarm Silence a second time turns them back on. The LED indicates that the panel is in alarm and operating with notification appliances turned off.
- **15. Drill button:** Activates notification appliances depending on panel programming but does not place the panel in alarm. The LED indicates that the panel is in Drill Mode.
- 16. Menu button: Displays the operator menus.
- **17. Delete button:** Returns to the previous menu or backspaces the cursor.
- **18.** Enter button: Press the Enter button to accept information or continue to the next item.
- **19. Numeric keypad:** Numbered buttons for entering values and making menu selections.
- 20. Barcode scanner jack: Input for optional barcode scanner.
- Priority Access keyswitch: Enables control functions reserved for access level 2 and above without requiring a password.

Typical Wiring

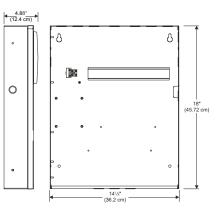


Semi-flush mounting requires an optional trim ring, which adds 3/4" to all sides of the panel.

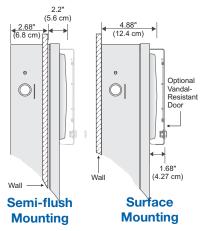
| LEGEND | | | | |
|----------|--------------------------------------|------|------------------------------------|--|
| | Enhanced Integrity Horn-Strobe | ş | End-of-Line Resistor | |
| Ø | Genesis Horn-Strobe | 10 | Programmable I/O Module | |
| G M | Genesis Signal Master | UM | Universal I/O Module | |
| 3 | Smoke Detector | CT2 | Dual Circuit Input Module | |
| | 2-Wire Smoke Detector | CR | Control Relay Module | |
| | Smoke Detector with Relay Base | CC1 | Signal Module | |
| S | Smoke Detector with Isolator Base | CC1S | Signal Module (synchronization) | |
| F | Manual Pull Station | RM | Riser Monitor Module | |
| J | Junction Box | MM1 | Monitor Module | |

More wiring suggestions can be found in the QS1 Fire Alarm Control Panel Installation, Operation, and Maintenance Manual, P/N 3100184.

Dimensions



Mounting



Standard Components and Option Cards

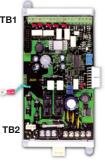
QS1 panels come standard with a CPU/Display Unit, an SLIC Signature Loop Controller. and a PS6 Power Supply (see ordering information for details).

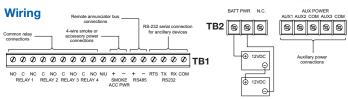
Available QS1 option cards provide dialing capability or extra relays for anciliary control. Quick-Lok option cards snap onto DIN mounting rails for fast, no-fuss installation. One option card space is available.

PS6 Power Supply Card

Description

The PS6 provides primary dc power to all the TB1 circuit cards installed in the cabinet. There are four 24 Vdc power output circuits - three for powering auxiliary applications, and one for powering four-wire smoke detectors - and a charging circuit for standby batteries. The PS6 also provides common alarm, supervisory, and trouble relays, as well as a fourth relay that is user programmable.





Relay 1: Form C. Contacts change position when the control panel processes an alarm signal and remain changed until all active alarm inputs restore and the control panel resets. Relay 2: Form A. Contacts change position when the panel processes a supervisory signal and remains changed until all active supervisory inputs restore.

Relay 3: Form A. Contacts change position when the panel loses power or processes a trouble signal and remains changed until power returns or the trouble clears.

Relay 4: Form A. Relay closes and opens according to panel programming.

Smoke/Accessory Power: Jumper setting determines if the 24 Vdc is constant or resettable.

| Controller, | |
|--|--|
| control. on. One | |
| | |
| Cabinet with option card and batteries installed. | |

Standard Component

Specifications

Cabinet with option car

| Main supply circuit | AC input: 115 or 230 Vac, 50/60 Hertz DC input: 24 Vdc batteries |
|--|--|
| Battery charging circuit | Charge current: 2 amps Charge capacity: 40 amp hours (UL) 30 amp hours (ULC) |
| Smoke/Accessory power output circuit | Voltage: 24 Vdc, regulated Current: 250 mA Wire size: 12 to 18 (0.75 to 2.5 mm ²) |
| Auxiliary power output circuits | Quantity: 3 Voltage: 24 vdc full wave rectified Current: 1.5 amps each |
| Common alarm relay | Style: Form C Contact rating: 1 amp Wire size: 12 to 18 AWG (0.75 to 2.5 mm ²) |
| Trouble, Supervisory and programmable relays | Style: Form A (N/O) Contact rating: 1 amp Wire size: 12 to 18 AWG (0.75 to 2.5 mm ²) |
| Operating environment | Temperature: 32 - 120° F (0 - 49° C) Humidity: 93 %RH, non-condensing |
| Current requirements | Standby current: 72 mA Alarm current: 96 mA |
| | |

Standard Component

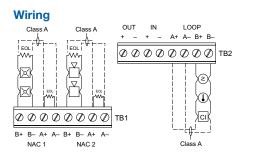
Specifications

| Signaling line circuit | Configuration: Class B (Style 4) or Class A (Style 7) Capacity: 125 Signature detectors 125 Signature modules Wire size: 18 to 12 AWG (0.75 to 2.5 mm ²) Circuit resistance: 65 ohms Circuit capacitance: 0.3 µf |
|--|---|
| Notification appliance circuits #1 and #2 | Configuration: Class B or Class A Output voltage: 24 Vdc, nominal Output current: 2.0 A at 24 Vdc for #1 and 0.8 A at 24 Vdc for #2 Wire size: 18 to 12 AWG (0.75 to 2.5 mm ²) End of line resistor: 10k ohms, ½ W |
| NAC power input circuit Operating | Voltage: 24 Vdc, nominal Wire size: 18 to 12 AWG (0.75 to 2.5 mm ²) Temperature: 32 - 120° F (0 - 49° C) |
| environment | Humidity: 93 %RH, non-condensing |
| Current requirements | Standby current: 33 mA Alarm current: 57 mA (Both NACs on) |
| Card spaces | Requires one card space. |

SLIC Signature Loop Intelligent Controller

Description

The SLIC provides one Class A or Class B data circuit (loop) for connecting Signature Series detectors and modules. The SLIC also provides two programmable Class A or Class B notification appliance circuits (NACs) for connecting polarized 24 Vdc notification appliances such as horns and strobes. QS1 supports one SLIC.





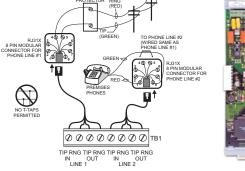
Signaling Line Circuit and NACs are supervised and powerlimited.

Option Card

Description

The DLD is a ULI/ULC listed dual line Digital Alarm Communicating Transmitter (DACT). It provides two phone line connections for sending system messages to a compatible Digital Alarm Communicator Receiver. The DLD supports 4/2 and Contact ID formats. It occupies one card space on the chassis rail.

Wiring





Specifications

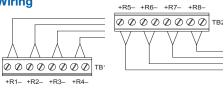
| Operating | Temperature: 32 - 120 ° F (0 - 49 ° C) | | |
|--|---|--|--|
| environment | Humidity: 93% RH, non-condensing | | |
| Current | Standby: 13 mA | | |
| requirements | Alarm: 20 mA | | |
| requirements | Dialing: 26 mA | | |
| Phone Lines Two loop start lines on switched telephone | | | |
| FIIONE LINES | network. Pulse or DTMF dialing. | | |
| Wall Connector | RJ31X/CA31A equiv. or RJ38X/CA38A equiv. | | |
| Communications | Contact ID (SIA DC-05), 4/2 (SIA DC-02 P3). | | |
| Protocol | 001120110 (01A D0 00), 4/2 (01A D0 02 1 0). | | |
| Programming | Via QuickStart, Front Panel or PC. | | |
| Communications | Communications Canada CS-03FCC/CFR 47 Parts | | |
| Compliance | 15 and 68, NFPA 72, ULI 864, ULC S527-M87 | | |
| Receivers | Signals can be transmitted to either or both of two | | |
| HECEIVEI S | receivers. | | |
| Telephone #s | Two 24-digit numbers per receiver. | | |
| Card spaces | Requires one card space. | | |
| | | | |

ZR8 Relay Card

Description

The ZR8 provides eight dry-contact relays that can be independently configured as Form A or Form B relays. It occupies one card space on the chassis rail.

Wiring



X485 Class A RS-485 Card and QS-232 Port

Description

The NT-A, which includes the X485/ RS-485 card and QS-232/UART port, provides one Class A serial remote annunciator bus for connecting remote annunciator panels. Control panels require the X485 card and QS-232 port, which also serves as a laptop or printer port. The X485 occupies one card space on the chassis rail. The QS-232 port plugs into the panel CPU.

SL30, SL30-1, SL20L5S, SL30L LED/Switch Cards

Description

The SL30 and SL30-1 provide thirty circuits for zone annunciation. Each circuit comprises two LEDs and a push button switch. The SL30 push button switches are numbered from 1 to 30 and the SL30-1 push button switches are numbered from 31 to 60. The SL20L5S provides 20 circuits for point annunciation and five circuits for custom control functions. The SL30L provides 30 circuits for point annunciation. SL20L5S and



SL30L circuits are labeled using inserts provided with the cards.

| 200000000 | TB1 |
|-----------|-----|
| | |
| ***** | |
| | |
| | |
| | |
| | |
| | TB2 |
| | |

0

Wiring

ØØØØ TB1

CH2 CH1

CH2

RA

CH1

CH2

RA

Specifications

| Output relays | Style: Form A (N/O) or Form B (N/C) (jumper configurable) Contact rating: 1 amp @ 30 Vdc resistive. Wire size: 18 to 12 AWG (0.75 to 2.5 mm ²) |
|---------------|---|
| Operating | Temperature: 32 - 120° F (0 - 49° C) |
| environment | Humidity: 93 %RH, non-condensing |
| Current | Standby current: 11 mA |
| requirements | Alarm current: 18 ma per active relay |
| Card spaces | Requires one card space. |

Specifications

| Wire size | 12 to 18 AWG (0.75 to 2.5 mm²) twisted pair (6 twists per foot minimum) |
|--------------------------|---|
| Circuit resistance | 100 Ohms |
| Circuit capacitance | 0.4 µF |
| Operating environment | Temperature: 32 - 120° F (0 - 49° C) Humidity: 93 %RH, noncondensing |
| Current requirements | Standby: 60 mA Alarm: 60 mA |
| Card Spaces | Requires one space for the NT-A |
| | |

Option Cards

Option Cards

Specifications

| Operating environment | Temperature: 32 - 120 ° F (0 - 49 ° C) Humidity: 93% RH, non-condensing |
|-----------------------|--|
| Current requirements | Standby: 1mA Alarm: 0.75 mA per active LED |

Remote Annunciators

QS1 supports up to eight remote annunciators, which provide mirrored or customized annunciation of front panel messages and status indicators. Two models are available: The QSA Series, and the SRA Series.

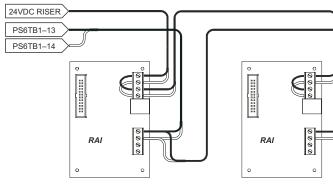


QS1 Annunciator

QS1 remote annunciators connect directly to the PS6 Power Supply Card or an external 24 Vdc filtered supply. They are available with wallboxes for flush or surface mounting.

Annunciators are available with one annunciator option space for a display card with 30 dedicated switches and LEDs. See the Ordering Table for more information.

Class B Wiring



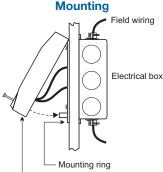
SRA Annunciator

The QuickStart SRA Remote Annunciator is a single-loop standalone unit that can be powered by the control panel or by an approved power supply. Annunciators support Class A or Class B connection to the system RS-485 data line, but do not provide ground fault isolation.

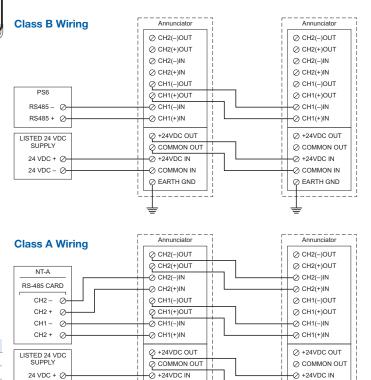
The SRA annunciator includes an RJ-12 modular jack to allow system database downloads from a laptop computer. Connection requires a programming cable (model number PROG-CABLE-1, ordered separately). Annunciators are mounted to 4-inch square electrical boxes.

24 VDC - Ø-



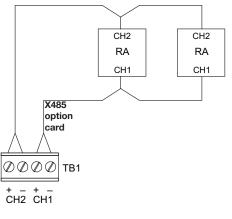


Annunciator



-⊘ COMMON IN ⊘ EARTH GND





Dimensions

| Model | Height | Width | Depth |
|--------------------|------------------|-------------------|-----------------|
| QSA-1-S | 7.6" (19.46 cm) | 14.25" (36.20 cm) | 2.9" (7.3 cm) |
| QSA-1-F (rough in) | 6.56" (16.66 cm) | 13.25" (33.66 cm) | 2.1" (5.33 cm) |
| QSA-1-F (finished) | 7.8" (19.81 cm) | 14.42" (36.63 cm) | 1.38" (3.49 cm) |
| | | | |

Rough-in dimensions reflect the size of the cabinet where it enters the wall. Finished dimensions reflect the size of the cabinet that protrudes from the wall.

XGD Graphics Driver Card

The XGD Graphics Driver Card is an interface device that connects a QuickStart annunciator to an Envoy Graphic Annunciator. The XGD provides the electronics required to support 24 LEDs and 12 switches on the Envoy display panel. Multiple XGD cards can be chained together in one graphic annunciator cabinet to control larger displays. The QuickStart SRA Series annunciators can support a maximum of six XGD cards. -⊘ COMMON IN

⊘ EARTH GND

R-Series Annunciators

R-Series Annunciators are highperformance remote annunciators that provide status indication and common controls for QuickStart and other compatible fire alarm control panels. This family of annunciators offers LCD or LED annunciation. Models are available with and without common controls.

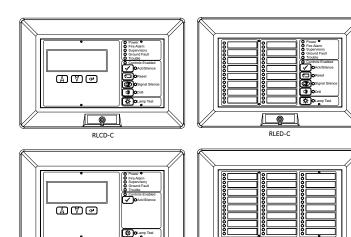


RLED24

There are three R-Series annunciator models, plus an LED-based expander. Up to two expanders can be connected to any annunciator. The expander includes 24 pairs of LEDs that extend the capabilities of any of the annunciators.

All annunciator models include status LEDs and an internal buzzer. Two models have an LCD text display, and one has 16 pairs of LEDs for zone annunciation. LCD models feature a large back-lit, four by twenty character per line, super-twist liquid crystal display.

R-Series annunciators and expanders are mounted on a standard 4-inch square electrical box, using the included mounting ring. They can also be surface mounted in locking steel enclosures. Three different enclosures are available.



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RLCD

Ordering Information

R-Series LCD Remote Annunciators

| | Remote Annunciator, 4X20 LCD & Common Indicators |
|---------|--|
| RLCD | for displaying system status, mounts 4" Square electrical box, gray housing. |
| RLCD-R | Remote Annunciator, 4X20 LCD & Common Indicators for displaying system status, mounts 4" Square electrical box, red housing. |
| RLCD-C | Remote Annunciator, 4X20 LCD, Common Indicators & Common Controls for displaying system status, mounts 4" Square electrical box, gray housing. |
| RLCD-CR | Remote Annunciator, 4X20 LCD, Common Indicators & Common Controls for displaying system status, mounts 4" Square electrical box, red housing. |

For French common control, add suffix F to model number.

LED Remote Annunciators & Expander

| LED Nemic | Annunciators & Expander | |
|-----------|--|--|
| RLED-C | Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box, gray housing. | |
| RLED-CF | Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box, gray housing, French. | |
| RLED-CR | Remote Annunciator, Common Indicators for displaying system status, common controls & 16 groups w/2 LEDs each for zone display, mounts to standard 4" Square electrical box, red housing. | |
| RLED24 | Remote Annunciator Zone expander, 24 groups of 2 LEDS each for display of alarm and trouble. Each with custom label area. Mounts to standard 4" electrical box, gray housing. | |
| RLED24R | Remote Annunciator Zone expander, 24 groups of 2 LEDS each for display of alarm and trouble. Each with custom label area. Mounts to standard 4" electrical box, red housing. | |
| Graphic A | nnunciator Drivers | |
| GCI | Graphic Annunciator Driver, provides outputs for common indicators and 32 alarm/supv zones as well as inputs for common switches. Provided with a snap track for mounting in custom graphic enclosures. | |
| Remote A | nnunciator Cabinets & Accessories | |
| RA-ENC1 | Remote Annunciator Enclosure, key locked with plexiglass window for one RLCD(C) or RLED(C). | |
| RA-ENC2 | Remote Annunciator Enclosure, key locked with plexiglass window with space for 2 of either RLCDx, RLEDx or RLED24. | |
| RA-ENC3 | Remote Annunciator Enclosure, key locked with plexiglass window with space for 3 of either RLCDx, RLEDx or RLED25. | |
| RKEY | Keyswitch, single gang, provides key operated enable or disable of common controls on RLCD or RLED units. | |
| | | |

| LSRA-SB | Surface Mount Box - for R Series single units. |
|---------|--|



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Ordering options

(Apply to basic packages and CPU/displays only)

Languages

No suffix = American English SP = Spanish (230v or 115v) PG = Portuguese (230v only) FR = French Canadian (120v only)

Power Supplies

1 = 115v transformer **2** = 230v transformer

Colors

 \mathbf{G} = Grey enclosure (230v or 115v) \mathbf{R} = Red enclosure (115v only)

Examples

QS1-1-G-2-SP = QS1 basic package with one option card space, grey enclosure, 230v transformer, Spanish language.

QS1-CPU-FR = QS1 CPU/display, French Canadian.

Ordering Information

| Part Number | Description | Ship Wt. Ib. (kg.) |
|--|---|-----------------------|
| Basic Package - Enclosure, SLIC, Power Supply, CPU and Display | | |
| QS1-1-G-1 | Single loop system. 1 option card space. Gray enclosure, 115v | 17.0 |
| | transformer. | (7.71) |
| QS1-1-R-1 | Single Loop System. 1 option card space. Red enclosure, 115v | 17.0 |
| | transformer. | (7.71) |
| Note: SLIC Card B NACs. | d includes One Signature Loop Intelligent Controller for up to 250 devices and one Clas | s A or two Class |

| Enclosure Accessories | | | |
|-----------------------|-------------------------------------|------------|--|
| QS-1-VR | Vandal-resistant cabinet door, gray | 3.0 (1.36) | |
| QS-1-VR-R | Vandal-resistant cabinet door, red | 3.0 (1.36) | |
| TRIM-1 | Trim Kit - gray | 5.0 (2.27) | |
| TRIM-1R | Trim Kit - red | 5.0 (2.27) | |

Option Cards

| DLD | Dual Line Dialer. Supports 4/2 and Contact ID formats. | 1.0 (0.45) |
|-----|--|------------|
| ZR8 | Relay Card. 8 programmable Form A contacts. | 1.0 (0.45) |

Display Options

| Display Opt | | |
|----------------|---|------------|
| SL30 | Annunciator module. Numbered 1 to 30. Two LEDs and one switch per zone. | |
| SL20L5S | Annunciator module. 20 circuits for point or zone annunciation, 5 circuits for custom functions. Circuits labeled with insert card. | 1.0 (0.45) |
| SL30L | Annunciator module. 30 circuits. Circuits labeled with insert card. | 1.0 (0.45) |
| QS1-CPU-1 | Single Loop CPU/Display, one annunciator option space | 4.0 (1.81) |
| EST-SRA1 | Intelligent/Conventional CPU/Display with integrated LCD and control switches. 4" square box mount. | 4.0 (1.81) |
| NT-A | RS-485 option card. Required for Class A remote annunciation. Includes UART card. | |
| QS-232 | UART option card. Plugs into CPU. Required for PC Programming / printer port. Included in NT-A package | |
| | nunciator Cabinets ce Assembly; Require CPU/Display) | |
| QSA-1-S | Surface Remote Annunciator Cabinet. Space for one SL30 display card. | |
| QSA-1-F | Flush Remote Annunciator Cabinet. Space for one SL30 display card. | |
| QSA-1-S- VR | Surface Remote Annunciator Cabinet. Vandal Resistant. Space for one SL30 display card. | 4.0 (1.81) |
| QSA-1-F- VR | Flush Remote Annunciator Cabinet. Vandal Resistant. Space for one SL30 display card. | 4.0 (1.81) |
| | | |

Programming Tools

| QS-CU | QuickStart Panel Configuration Utility. | 1.0 (0.45) | | |
|-------------|---|------------|--|--|
| QS-Scan | QuickStart scanner and programming guide. | 2.0 (0.91) | | |
| Progcable-1 | Scanner port upload/download cable | 1.0 (0.45) | | |
| 260097 | Programming cable (PC to QSC, QS1, QS4) | 1.0 (0.45) | | |
| | | | | |

| Accessorie | es | |
|-----------------|---|----------------|
| PT-1S | SystemPrinter - Desk top Style | 14.0 (6.35) |
| BC-1(R) | Battery Cabinet. Room for one 40 Ah or two 24 Ah batteries. | 22.0 (9.98) |
| MFC-A | MultiFunction Cabinet. | 7.0 (3.1) |
| IOP3A | RS-232 Isolator Module. | 3.0 (1.36) |
| RPM | Reverse Polarity Module. | 3.0 (1.36) |
| 2-CTM | City Tie Module. | 1.0 (0.45) |
| API- 8/232ME | Alphanumeric Pager Interface. | 11.0 (5.0) |
| BPS6A | 6.5 Amp Booster Power Supply, 110 V | 13.0 (5.9) |
| BPS10A | 10 Amp Booster Power Supply, 110 V | 13.0 (5.9) |
| CDR-3 | PSNI Coder Module | 1.0 (0.45) |
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