

Conventional Life Safety Control Panel











Overview

EST's QSC life safety control panel provides a cost-effective solution for conventional life safety applications. Designed for easy setup and simple installation, QuickStart lives up to its name in every respect. QSC'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. Text entry is easy as well. A few simple passes of the optional scanner is all it takes to store custom messages.

QSC's setup routine is deceptively simple, considering this system's robust features. Supporting up to 48 conventional Class B or a combination of 40 Class A and Class B initiating circuits, this panel leaves plenty of room to grow. QSC is compatible with either two- or four-wire detectors, and also provides built-in support for EST's EC family of conventional detectors.

QuickStart's modular design brings flexibility to every installation. Quick-Lok option cards snap onto QSC's easily-accessible DIN mounting rails. These cards provide a dialer, auxiliary relays and additional system capacity. QSC also supports as many as eight remote annunciators and up to 60 programmable front panel switches with dual LEDs for system control and display.

QSC is as simple to operate as it is to set up. Its easy-to-read four-line backlit LCD display provides 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

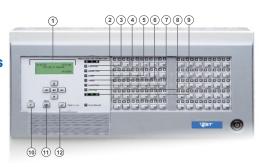
- Supports up to 48 Class B or a combination of 40 Class A and Class B conventional circuits
- Compatible with two- and four-wire smoke detectors
- Failsafe mode ensures uncompromised reliability
- Capacity for eight remote annunciators
- Four built-in system relays
- Optional dual line dialer supports 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
- Two optional banks of 30 front panel switches with dual LEDs
- Red or grey cabinets in two sizes for surface or semi-flush mounting
- Four-line (80 character) backlit LCD display
- Four password levels, plus priority access keyswitch
- Message routing by event type or by individual message
- 1,000 event history buffer, plus alarm history counter
- 6 amp Power Supply, 4.75 amps available for external use
- ULC-S527-99 compliant
- Compare utility identifies system changes and simplifies testing.

Application

QSC is a total life safety solution that merges flexibility, high system capacity, and robust features with a cost-effective and installer-driven design. Ideal for small buildings, the QSC is perfectly suited for new and retrofit applications in schools, apartment buildings, hospitals, office buildings, and retail facilities.

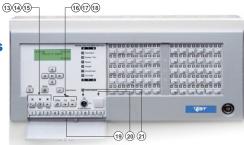
Operation

Indicators



- 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.
- 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.
- Monitor LED: Indicates the operation of an ancillary system function (door closures, fan pressure switches).
- Trouble LED: Indicates an off-normal condition or wiring fault that compromises the integrity of the system.
- Ground Fault LED: Indicates a ground fault in the system wiring. Ground faults also signal a system trouble.
- 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.
- 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.

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.
- 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.
- Barcode scanner jack: Input for optional barcode scanner.
- **21. Priority Access keyswitch:** Enables control functions reserved for access level 2 and above without requiring a password.

CPU / LCD Display

Description

The QSC front panel display provides four lines by 20 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 two optional LED/Switch cards.



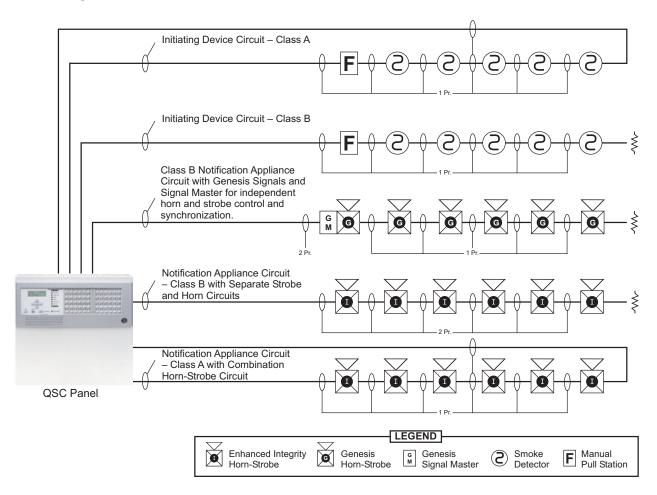
Specifications

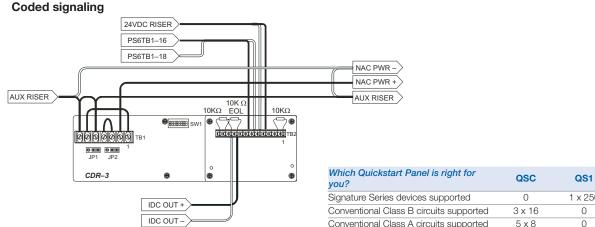
Operating	Temperature: 32-120 °F (0-49 °C)
environment	Humidity: 93 %RH, non-condensing
	Standby: 117 mA when connected to PS6; 105 mA when connected as a remote annunciator
Current requirements	Alarm: 135 mA when connected to PS6;
	123 mA when connected as a remote annunciator

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.

Typical Wiring





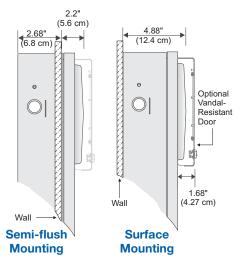
More wiring suggestions can be found in the QSC Fire Alarm Control Panel Installation, Operation, and Maintenance Manual, P/N 3100185.

1 x 250 4 x 250 0 3 x 16 5 x 8 Conventional Class A circuits supported 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 5 or 12 For more information, see Data Sheet ... 85005 -0112 85005 -0113 85005 -0114

QS4

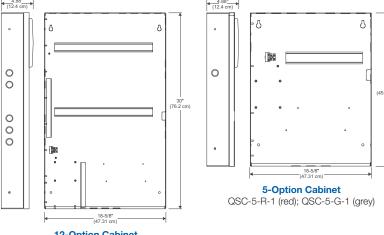
Cabinet Mounting

12 and 5-Option Cabinets



Semi-flush mounting requires an optional trim ring, which adds ¾" (19 mm) to all sides of the panel.

Cabinet Dimensions



12-Option Cabinet QSC-12-R-1 (red); QSC-12-G-1 (grey)

Standard Components and Option Cards

All QSC panels come standard with a CPU/Display Unit, and a PS6 Power Supply (see ordering information for details).

QuickStart option cards provide a wide range of features and extra system capacity. Thanks to the convenient Quick-Lok mounting system, option cards snap onto the DIN mounting rails easily and securely. Wallboxes are available in two sizes with room for either five or 12 single-space option cards. Both sizes of wallbox feature easily-accessible mounting rails and plenty of room for cabling.



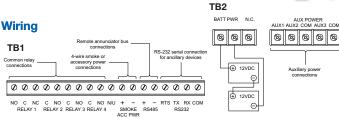
Standard Component

PS6 Power Supply Card

Description

The PS6 provides primary dc power to all the 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.

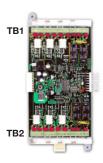
Specifications

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 mm²)
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 mm²)
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 mm²)
Operating environment	Temperature: 32 - 120° F (0 - 49° C) Humidity: 93 %RH, non-condensing
Current requirements	Standby current: 72 mA Alarm current: 96 mA

ZA8-2, ZB16-4 Zone Cards Option Cards

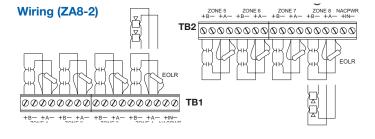
Description

The ZB16-4 Zone Card provides sixteen circuits for connecting Class B conventional input and output zones. Twelve circuits are dedicated initiating device circuits (IDCs) for connecting 2-wire smoke detectors and drycontact initiating devices. Four circuits can be configured as either IDCs or as notification appliance circuits (NACs) for connecting polarized 24 Vdc notification appliances such as horns or strobes.



Wiring (ZB16-4)		Z10 Z11 Z12 Z13 Z14 Z15 Z16 R1 R2 + - + - + - + - + - + - + - + - + - + -
	TB2	0000000000000000000
000000000000000000000000000000000000000	⊘ ⊘⊘⊘ TB1	
+ + + + + + +	+ +	

The ZA8–2 Zone Card provides eight circuits for connecting Class A conventional input and output zones. Six circuits are dedicated initiating device circuits (IDCs) for connecting 2-wire smoke detectors and dry-contact initiating devices. The remaining two circuits can be configured as either IDCs or as notification appliance circuits (NACs) for connecting polarized 24 Vdc notification appliances such as horns or strobes.



Specifications	ZB 16-4	ZA8-2
Initiating device circuit	ts	
Quantity	12 to 16	6 to 8
Wiring configuration	Class B	Class A
Detector voltage	19.9 – 24.0 Vdc,	max ripple 400 mV
End of line resistor	4.7k oh	ms, ½W
Short circuit current	31 mA	A, max.
Resistance	50 Ohn	ns, max.
Capacitance	100 μ	F, max.

NAC power input circuit

Voltage	24 Vdc
Wire size	18 to 12 AWG (0.75 to 2.5 mm ²)

Notification appliance circuits

Quantity	1 to 4	1 or 2
Wiring configuration	Class B	Class A
End of line resistor	10k ohr	ns, 1/2W
Output voltage	24 Vdc,	nominal
Output current	2.0 A,	24 Vdc
Wire size	18 to 12 AWG (0	0.75 to 2.5 mm ²)

Operating environment

Temperature	32-120° F (0-49° C)
Humidity	93 %RH, non-condensing

Current requirements

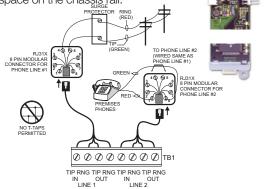
Standby	123 mA	73 mA
Maximum cards in	Three (48 zones)	Five (40 zones)
panel	40 zones maximum when both ZB16-4	
parier	and ZA8-2 cards installed.	
Card Spaces	Requires two card spaces.	

DLD Dialer 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.





Specifications

Operating	Temperature: 32 - 120 ° F (0 - 49 ° C)
environment	Humidity: 93% RH, non-condensing
Current	Standby: 13 mA
requirements	Dialing: 26 mA
Phone Lines	Two loop start lines on switched telephone
Priorie 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	Contact ID (SIA DC-03), 4/2 (SIA DC-02 P3).
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
	receivers.
Telephone #s	Two 24-digit numbers per receiver.
Card spaces	Requires one card space.

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.



Specifications

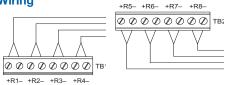
Operating environment	Temperature: 32 - 12 Humidity: 93% F	20 ° F (0 - 49 ° C) RH, non-condensing
Current requirements	Standby: 1mA Alarm LED	: 0.75 mA per active

ZR8 Relay Card Option 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.







Specifications

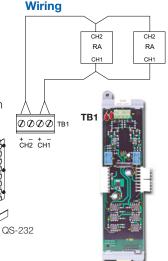
Output relays	Style: Form A (N/O) or Form B (N/C) (jumper configurable) Contact rating: 1 amp @ 30 Vdc resistive. Wire size: 18 to 12 AWG (0.75 to 2.5 mm²)
Operating environment	Temperature: 32 - 120° F (0 - 49° C) Humidity: 93 %RH, non-condensing
Current requirements	Standby current: 7 mA Alarm current: 18 ma per active relay
Card spaces	Requires one card space.

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

Option Cards

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.



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	Temperature: 32 - 120° F (0 - 49° C)
environment	Humidity: 93 %RH, noncondensing
Current	Standby: 75 mA
requirements	Alarm: 75 mA
Card Spaces	Requires one space for the NT-A

R-Series Remote 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.



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.

QSA Series Remote Annunciators

The QSA front panel display provides four lines by 20 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 two optional LED/Switch cards. Remote annunciators connect

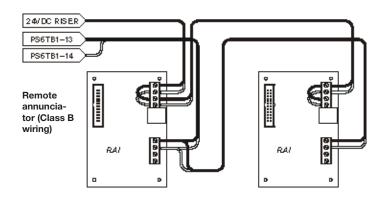


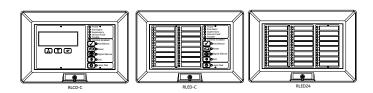
directly to the PS6 Power Supply Card or an external 24 Vdc filtered supply. They are available with wallboxes for flush or surface mounting.

Remote Annunciator 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)	
QSA-2-S	7.6" (19.46 cm)	18.56" (47.14 cm)	2.9" (7.3 cm)	
QSA-2-F (rough in)	6.56" (16.66 cm)	17.56" (44.60 cm)	2.1" (5.33 cm)	
QSA-2-F (finished)	7.8" (19.81 cm)	18.75" (47.63 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.





Ordering Information

R-Series LCD Remote Annunciators

RLCD	Remote Annunciator, 4X20 LCD & Common Indicators 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 Remote 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.
F	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

Graphic Annunciator Drivers

red housing.

Graphic Annunciator Driver, provides outputs common indicators and 32 alarm/supv zone inputs for common switches. Provided with	es as well as a snap track
for mounting in custom graphic enclosures.	

custom label area. Mounts to standard 4" electrical box,

Remote Annunciator Cabinets & Accessories

RA-ENC1	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

G = Grey enclosure (230v or 115v) **R** = Red enclosure (115v only)

Examples

QSC-5-G-2-SP = QSC basic package with five option card spaces, grey enclosure, 230v transformer, Spanish language.

QSC-CPU-2-FR = QSC CPU/display, two annunciator option spaces, French Canadian.

Ordering Information

Part Number	Description	Ship Wt. lb. (kg.)
Basic Packa	ge - Enclosure, Power Supply, CPU and Display	
QSC-5-G-1	Conventional System. Five option card spaces. Gray. 115v transformer.	17.0 (7.71)
QSC-5-R-1	Conventional System. Five option card spaces. Red. 115v transformer.	17.0 (7.71)
QSC-12-G-1	Conventional System. 12 option card spaces. Gray. 115v transformer. QS-Cable12 required.	30.0 (13.61)
QSC-12-R-1	Conventional System. 12 option card spaces. Red. 115v transformer. QS-Cable12 required.	30.0 (13.61)
Enclosure Ad	·	,
QS-2-VR	Vandal-resistant cabinet door, gray	3.0 (1.36)
QS-2-VR-R	Vandal-resistant cabinet door, red	3.0 (1.36)
QS-Cable12	Expansion Cable for 12-option card cabinets.	0.5 (0.23)
Trim-5	Gray Flush mount trim ring for QS-5-G-1.	5.0 (2.27)
Trim-5R	Red Flush mount trim ring for QS-5-R-1.	5.0 (2.27)
Trim-12	Gray Flush mount trim ring for QS-12-G-1.	8.0 (3.63)
Trim-12R	Red Flush mount trim ring for QS-12-R-1.	8.0 (3.63)
Initiating/No	tification Circuit Option Cards	
ZB16-4	Conventional Zone Card. 16 Class B circuits, four convertible to Class B NAC's. Requires two option card spaces.	2.0 (0.91)
740.0	Conventional Zone Card. Eight Class A circuits, two convertible to	0.0 (0.04)
ZA8-2	Class A NAC's. Requires two option card spaces.	2.0 (0.91)
Other 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 Option	ons	
SL30	Annunciator module. Numbered 1-30. Two LEDs, one switch per zone.	1.0 (0.45)
SL30-1	Annunciator module. Numbered 31-60. Two LEDs, one switch per zone.	1.0 (0.45)
SL20L5S	Annunciator module. 20 circuits for point annunciation, 5 circuits for custom functions. Circuits labeled with insert card.	1.0 (0.45)
SL30L	Annunciator module. Circuits labeled with insert card.	1.0 (0.45)
QSC-CPU-1	Conventional CPU/Display. One annunciator option space.	4.0 (1.81)
QSC-CPU-2	Conventional CPU/Display. Two annunciator option spaces.	4.0 (1.81)
NT-A	RS-485 option card. Required for Class A remote annunciation. Includes UART card.	1.0 (0.45)
QS-232	UART option card. Plugs into CPU. Required for PC Programming / printer port. Included in NT-A package	1.0 (0.45)
Remote Annu	nciator Cabinets (c/w Interface Assembly; Require CPU/Display)	
QSA-1-S	Surface Remote Annunciator Cabinet. Space for one SL30 display.	4.0 (1.81)
QSA-1-F	Flush Remote Annunciator Cabinet. Space for one SL30 display.	4.0 (1.81)
QSA-2-S	Surface Remote Annunciator Cabinet. Space for two SL30 displays.	5.0 (2.27)
QSA-2-F	Flush Remote Annunciator Cabinet. Space for two SL30 displays.	5.0 (2.27)
Programmin	g 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)
360136	Programming cable (PC to Annunciators)	1.0 (0.45)
240507	DB9 to RJ-11 (required with 360136)	1.0 (0.45)
Accessories	· · · · · · · · · · · · · · · · · · ·	
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)
BPS6	6.5 Amp Booster Power Supply, 110 V	13.0 (5.9)
BPS10	10 Amp Booster Power Supply, 110 V	13.0 (5.9)
CDR-3	PSNI Coder Module	1.0 (0.45)
00110	1 OTT COGOLIVIOGGIO	1.0 (0.70)