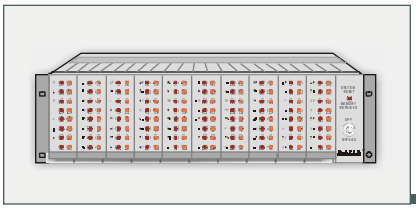
SALCO™

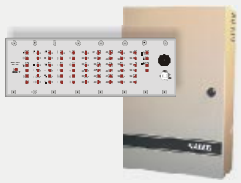
DOOR MONITOR / ANNUNCIATOR SYSTEMS CATALOG

121



CS-2000 SERIES

Door Monitor / Annunciator System monitors and displays the real-time status of up to 80 sensor points per system. Multiple CS-2000 systems can be configured for monitoring an unlimited number of sensor points.



781 SERIES

Door Annunciator Systems with combination zone status LED / bypass switch, piezo audible, common acknowledge reset, and optional relay output contacts per zone.

Available with 8 to 64 zones in multiples of 8 zones.

790 SERIES

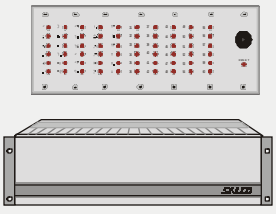
Door Annunciator System with deluxe panel, zone status LED, and bypass pushbutton.

Available with 8 zones.

850 SERIES

Door Annunciator Systems with zone status red LED / independent acknowledge reset switch per zone, bypass status yellow LED / bypass switch per zone, piezo audible, and optional independent output relay per zone, and optional relay output on bypass per zone.

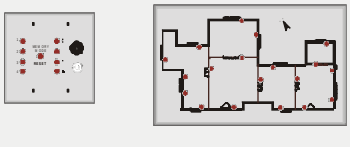
Available with 8 to 64 zones in multiples of 8 zones.



CS-60 SERIES

Door Annunciator with LED per zone, piezo audible, common acknowledge reset switch, and common output relay.

Available with 6 to 60 zones in multiples of 6 zones.



LT and GD SERIES

Standard Remote and Custom Graphic Displays.

FACTORY TERMS & CONDITIONS

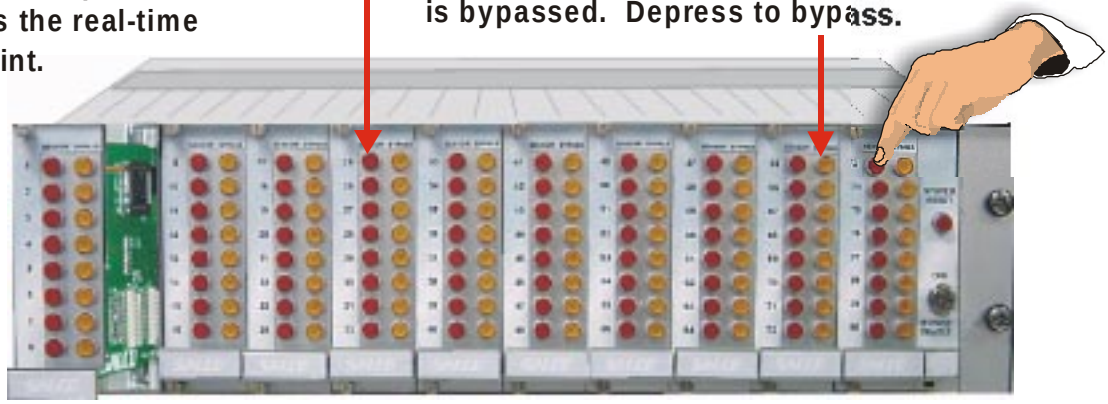
1

Monitor and Display the Real-Time Status of up to 80 Sensor Points per CS-2000 System

The red LED indicator / control switch illuminates when a sensor point is violated, and displays the real-time status of a sensor point. Depress to reset.

The yellow LED indicator / control switch illuminates when a sensor point is bypassed. Depress to bypass.

ALL LED's ARE ALSO PUSHBUTTON SWITCHES FOR INDIVIDUAL SENSOR CONTROL



Multiple CS-2000 systems can be configured for monitoring hundreds of sensor points

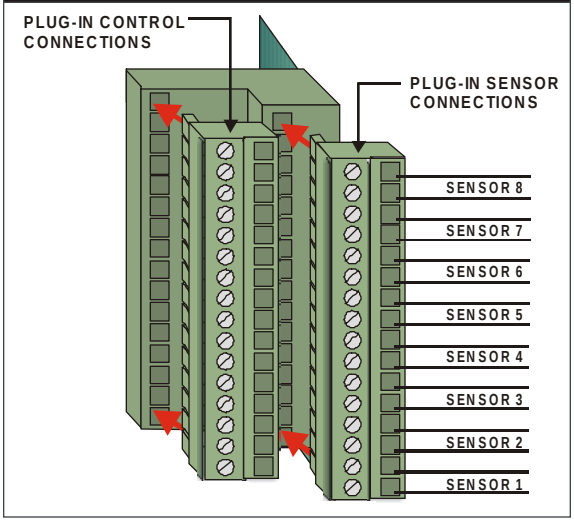
APPLICATIONS

Monitor Door Status in Large Buildings.
Interface with Access Control Systems.
Individual Door Site Display and Reset Control.
Monitor Machinery Contacts on the Factory Floor.

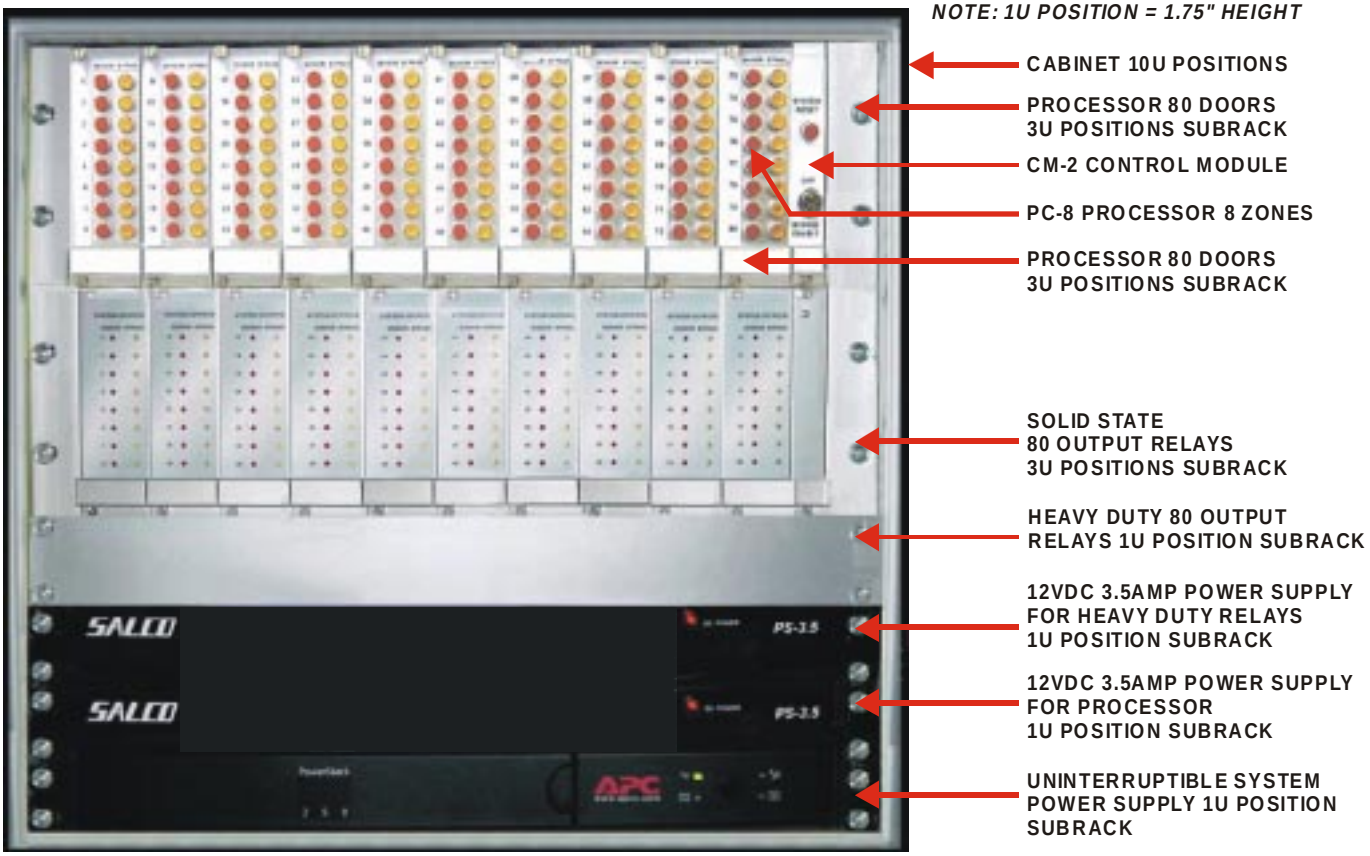
The CS-2000 monitors and displays the real-time status of up to 80 sensor points. The system comprises 10 plug-in modules for 8 sensor points each, which are inserted into a standard 19" subrack enclosure. A control module comprises a memory retrieve LED indicator, an integral system reset switch, and a keyswitch to enable or disable the bypass function. Multiple CS-2000 systems can be configured for monitoring hundreds of sensor points.

Each module has two LED indicator / pushbutton switches per sensor point, one yellow and one red. The yellow indicator / pushbutton switch enables the user to bypass or unbypass a sensor point and illuminates when a sensor point is bypassed. The red LED indicator / pushbutton switch enables the user to reset each sensor point individually, illuminates when a sensor point is violated and extinguishes when restored. The red indicator always displays the real-time status of a sensor point even when bypassed. Each module comprises a piezo audible which sounds on sensor violations and restorals. Independent output relays are available to interface with existing systems. High density field wiring is realized with high quality removable plugs on each module.

HIGH DENSITY FIELD WIRING ON REMOVEABLE PLUGS



80 ZONE MONITOR / ANNUNCIATOR SYSTEM CS-2000 / 80RDL WITH INDIVIDUAL OUTPUT RELAYS PER ZONE



SYSTEM CS-2000 / 80RDL

FEATURES:

Monitor up to 80 sensors Monitor up to 80 normally open or normally closed sensors with individual red status LED lamp / pushbuttons for control.

Manual reset sequence (Acknowledge) Manual reset sequence (Acknowledge) - Piezo audible sounds on a sensor violation or restoral until manually reset. Violated sensor's dedicated LED lamp illuminates flashing on a sensor violation or restoral until manually reset. When reset the LED lamp displays the real time true status of the sensor. Audible sounds until acknowledged on a violation or restoral.

Automatic reset sequence Automatic reset sequence - Piezo audible sounds for 5 seconds on a sensor violation and restoral. The dedicated lamp for the violated sensor illuminates and remains illuminated as long as the sensor is violated. The LED lamps always displays the real time true status of all sensors.

Manual or Automatic Reset Choice of Manual or Automatic Reset sequence of operation with field programmable DIP switch on each module.

Entry alert Entry alert activates the audible for 5 seconds in the manual sequence mode of operation regardless of the duration of the violation.

Selectively delete (bypass) sensors Delete (bypass) sensors with their individual yellow LED lamp / pushbuttons causing the sensor's yellow LED lamp to illuminate. Deleted sensors cause no alarm on a violation, but the sensor's red LED lamp displays the real time true status of the sensor.

Keyswitch Keyswitch enables or disables the delete (bypass) sensor function for authorized personnel.

Master output relay Master output relay common to all sensors transfers (activates) on alarm and remains activated as long as any of the senors remain violated. This relay also transfers (activates) on a power failure.

Auxiliary relay 1 Auxiliary relay 1 transfers (activates) and remains activated as long as any of the sensors is deleted (bypassed).

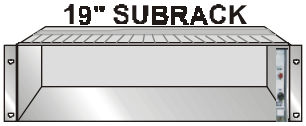
Auxiliary relay 2 Auxiliary relay 2 transfers (activates) whenever entry-alert sounds for 5 seconds on violations in the manual or automatic sequence mode of operation.

Track alarms Track the sequential order of multiple alarms, i.e., 1st out, 2nd out, up to 8 per module. Memory retrieve is active when in the automatic reset sequence of operation.

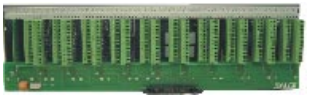
Memory history Memory history enables the retrieval of sensors which caused an alarm during the previous memory cycle.

Test all LED indicators Test all LED indicators by depressing the System Reset pushbutton for several seconds..

19" SUBRACK



BACKPLANE

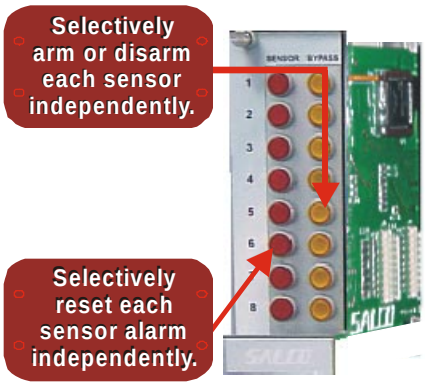


19" subrack enclosure with backplane and CM-2 common control module for up to 80 zones

PC-8 PROCESSOR FOR EIGHT ZONES

The PC-8 plug-in module monitors and displays the real time status of up to 8 doors. Selectively arm or disarm each door independently. Selectively reset each door (acknowledge) independently. Multiple PC-8 modules can be configured for monitoring hundreds of sensor points.

Each sensor point has two LED lamp / pushbutton switches. The yellow LED lamp / pushbutton is used to bypass or unbypass (arm or disarm) a sensor point and illuminates when the sensor point is bypassed. The red LED lamp / pushbutton always displays the real-time status of the sensor point even when bypassed, and is used to acknowledge and reset each sensor point individually, illuminating when a sensor point is violated and extinguishing when restored. Each processor has a piezo audible which sounds on sensor violations and restorals.



Monitors up to 8 normally open or normally closed sensors

Manual reset sequence (Acknowledge)

Automatic reset sequence

Choice of Manual or Automatic Reset sequence of operation

Entry alert

Selectively delete (bypass) sensors

Master output relay

Auxiliary relay 1 *Auxiliary relay 2*

Track the sequential order of multiple alarms

Memory history

Test all LED indicators

CM-2 COMMON CONTROL MODULE

Common control plug-in module with common functions to all modules such as system reset, bypass inhibit, and all LED indicators test.

PC-8R OUTPUT RELAY PER ZONE

Plug-in module presents an individual solid state output relay control per door as well as a solid state output relay contact indicating a door is bypassed.

PS-3.5 POWER SUPPLY

PS- 250 UNINTERRUPTABLE POWER SUPPLY

The PS-3.5 power supply converts 120 Volts AC 60 Hz into an output voltage of 12 Volts DC capable of supplying 3.5 amps. The power supply is housed in a standard 19" subrack enclosure which can be operated as a stand-alone system. When an uninterruptible 12 Volt DC power supply is required, the PS-3.5's AC line cord is inserted into the output of the APC model PS250 which is housed in a standard 19" subrack. Both the PS-3.5 power supply subrack and the APC PS-250 subrack can be mounted in a 19" rack vertically adjacent to each other. During and AC power failure backup time is a function of the current drawn from the PS-3.5. When drawing a maximum of 3.5 amps, the backup time is approximately 30 minutes. When drawing 1.0 amps, the backup time is approximately 240 minutes (4 hours).

BP-1 TO BP-9

Blank plate series for the 19" subrack when plug-in modules PC-8 are not used.

CAB-3U

CABINET FOR 19" SUBRACKS

6 3/4" x 20 1/2" x 12"

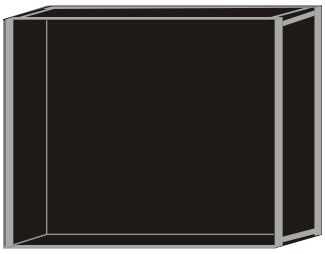
CAB-6U

CABINET FOR 19" SUBRACKS

12" x 20 1/2" x 12"

CAB-9U

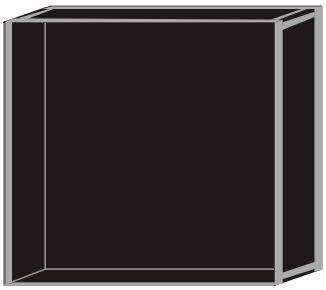
CABINET FOR 19" SUBRACKS



17 3/16" x 20 1/2" x 18 3/4"

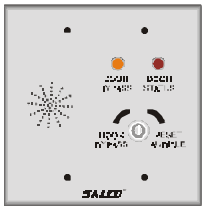
CAB-10U

CABINET FOR 19" SUBRACKS



19" x 20 1/2" x 18 3/4"

CS-2016



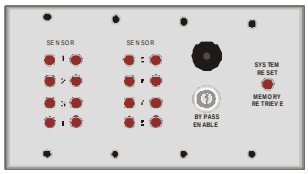
Door site remote annunciator / control. Displays real-time status of door and bypass functions. Door bypass and system reset momentary switch, and a loud audible.

870-1LT

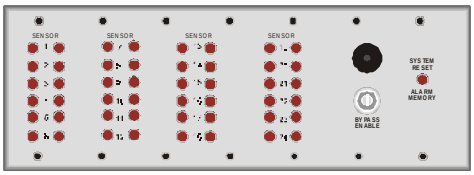
Door Site Display and Bypass / Reset Control Panel. Standard single gang brushed stainless steel panel for door bypass/ reset and display

Dimensions: 4.5" x 2.75" x 1.5" (11.43cm x 6.99cm x 3.81cm)

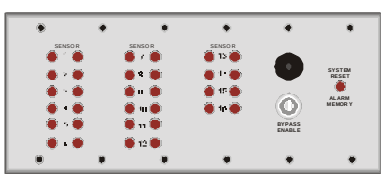
870-8LT
REMOTE ANNUNCIATOR
DISPLAY PANEL 8 ZONES



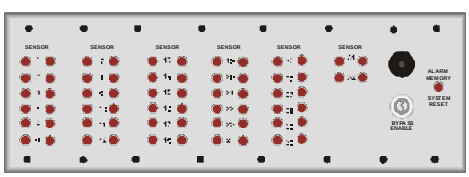
870-24LT
REMOTE ANNUNCIATOR
DISPLAY PANEL 24 ZONES



870-16LT
REMOTE ANNUNCIATOR
DISPLAY PANEL 16 ZONES



870-32LT
REMOTE ANNUNCIATOR
DISPLAY PANEL 32 ZONES



781 Series systems are available in multiples of 8 zones up to a maximum of 64 zones.

781-8ZB

781-8ZB Monitors Eight Doors with Individual Door Bypass

The 781-8ZB door annunciator system comes completely wired for operation. Installation is a matter of connecting the door sensors and up to three 770-8LT remote display and bypass panels to the processor board. The system comes with an uninterruptible power supply and transformer. Either normally open or normally closed door contacts can be used.

The remote display and bypass panel has eight LED lamp / push-button switches, a piezo audible sounder, bypass inhibit keyswitch and reset lamp / push-button switch, all mounted on a standard two-gang brushed stainless steel plate. Each LED lamp represents one door and displays the status of that door. When a door is open the lamp for that door is illuminated, when closed the lamp is extinguished. Each LED lamp is also a push-button switch for the bypass function, which when pressed constantly flashes indicating that door is out of service. The keyswitch on the panel is used to inhibit the door bypassing function. The audible piezo sounds while a door is open stopping when it is closed. A mode is possible where the audible piezo remains sounding until it is manually reset. When reset, the audible stops sounding and the lamp indicates the true status of the door. Systems are available in multiples of eight zones up to a maximum of 64 zones.

781-8ZB SYSTEM SPECIFICATIONS

Electrical Specifications

Power Input: Low voltage Class 2 Power Transformer supplied inserted into an unswitchable 120 Volt 60 Hz electrical outlet.
Door Conductors: Two conductors # 22 gauge AWG shielded or heavier. Maximum wire length 500ft. Unshielded 200ft.
Sensor Inputs: Normally open, or normally closed dry contacts.
770-8LT Display: Twenty two conductors # 22 gauge AWG or heavier. Maximum wire length 200ft.
A maximum of three displays can be connected in parallel.

Physical Specifications

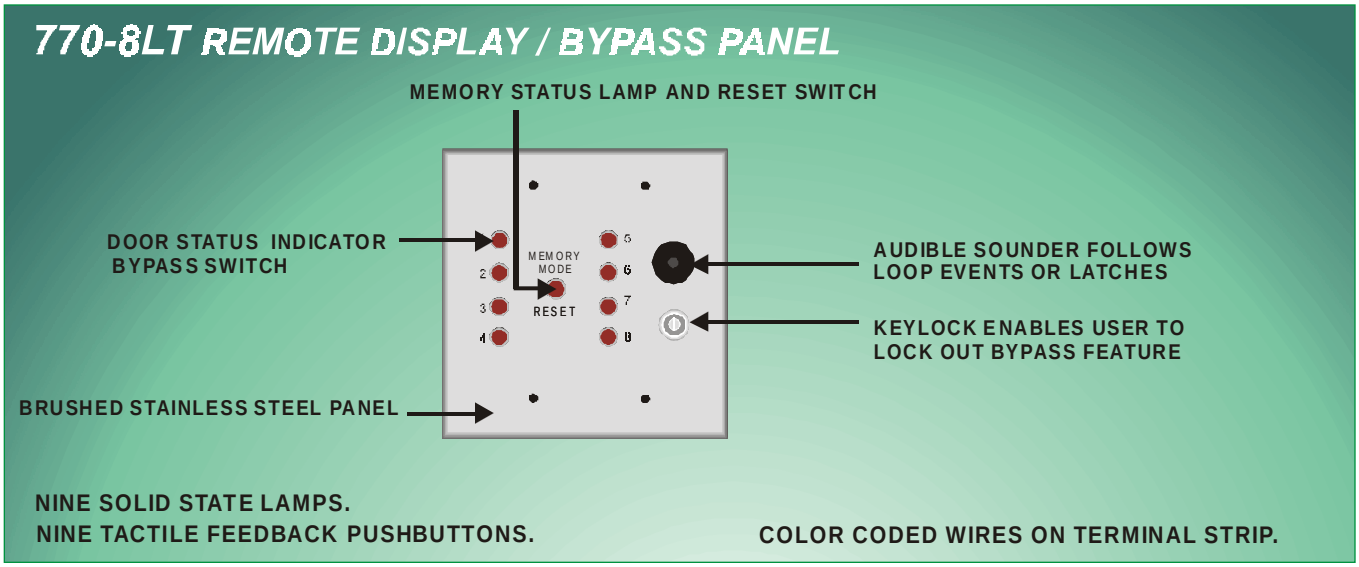
Remote Display Dimensions: 4.63" x 4.5"x 2.0"
Processor Dimensions: Height 18.25" Width 12.25" Depth 4.37" (46.35cm x 31.11cm x 11.10cm)
Weight 22 lbs.

Environmental Specifications

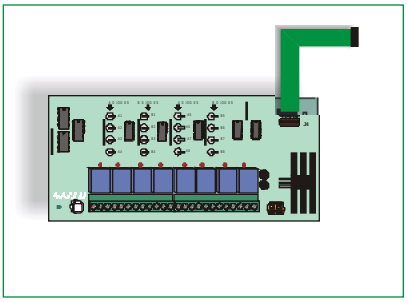
Operating Temperature: 32 to 158 °F (0 to 70 °C)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

770-8LT REMOTE DISPLAY / BYPASS PANEL



System Option: 708 CONTACT OUTPUT PER ZONE MODULE



APPLICATIONS

Activate CCTV cameras, digital communicators, horns, etc.

Interface with existing control panels and access control systems.

Activate lighting systems.

The 708 provides a SPDT relay contact output per zone.

The individual output relay contacts can be triggered in two ways: when the associated control instrument panel is armed or on a 24 hour basis on any zone. An LED per output relay illuminates whenever a relay is energized. All zones are programmed independently for the mode the installer chooses.

The output contacts can follow the violation and restoral of the protective loop or latch on the violation of a protective loop. In the latch mode, the contact output is reset only after the associated control instrument panel is disarmed.

708 CONTACT OUTPUT PER ZONE MODULE SPECIFICATIONS

Physical dimensions: 8 3/8" x 3 5/8" x 1" (21.2cm x 9.2cm x 2.54cm.)
Electrical: Operating Voltage - 12 volts DC
Current Drain - All relays energized 430 ma
All relays de-energized 15 ma
Output relay contact rating - SPDT, 2 Amps, 24 Volts DC Max
Environmental: Temperature Range 32 - 158 °F (0 - 70°C)

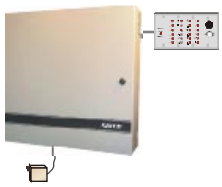
2

16 ZONES

781-16ZB

770-16LT Display Dimensions: 6.38" x 4.5" x 2.0"
38 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor Dimensions: Height 18.25" Width 12.25" Depth 4.37" Weight 15 lbs.



24 ZONES

781-24ZB

770-24LT Display Dimensions: 8.25" x 4.5" x 2.0"
54 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor: Height 19" Width 19" Depth 4.5"

32 ZONES

781-32ZB

770-32LT Display Dimensions: 10.0" x 4.5" x 2.0"
70 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor: Height 33.75" Width 22.25" Depth 4.5"

40 ZONES

781-40ZB

770-40LT Display Dimensions: 11.75" x 4.5" x 2.0"
86 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

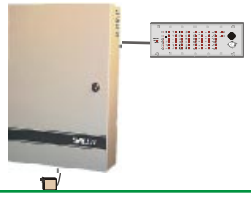
Processor: Height 33.75" Width 22.25" Depth 4.5"

48 ZONES

781-48ZB

770-48LT Display Dimensions: 11.75" x 4.5" x 2.0"
101 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor: Height 33.75" Width 22.25" Depth 4.5"

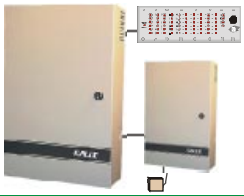


56 ZONES

781-56ZB

770-56LT Display Dimensions : 13.625" x 4.5" x 2.0"
125 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor: Height 33.75" Width 22.25" Depth 4.5"



64 ZONES

781-64ZB

770-64LT Display Dimensions : 15.5" x 4.5" x 2.0"
140 conductors # 22 gauge AWG shielded or heavier. Maximum wire length 200ft.

Processor: Height 33.75" Width 22.25" Depth 4.5"
Power Supply.: Height 18.25" Width 12.25" Depth 4.5"

781ZB COMMON SYSTEM SPECIFICATIONS

Electrical Specifications

Power Input: Low voltage Class 2 Power Transformer supplied inserted into an unswitchable 120 V 60 Hz electrical outlet.

Physical Specifications

Door Conductors: 2 conductors # 22 gauge AWG shielded or heavier. Maximum length shielded 500ft. Unshielded 200ft.

Environmental Specifications

Operating Temperature: 32 to 158°F (0 to 70°C)

NOTE: Specifications subject to change without notice.

790-8ZB

Options and Features

Local LED display and bypass switches.

Bypass inhibit keyswitch.

Can connect up to two additional remote LED / bypass panels.

Optional output relay per door module.

The 790-8ZB annunciator system comes completely wired for operation. Installation is a matter of connecting the sensors to the 790-8ZB. The system comes with an uninterruptible power supply and a 50VA class 2 power transformer which must be inserted into an 120V 60Hz unswitchable electrical outlet. Either normally open or normally closed sensor contacts can be used. The two conductors to each sensor should be 22 gauge AWG or heavier.

The display and bypass panel comprises eight LED lamp / push-button switches, a piezo audible sounder, a bypass inhibit keyswitch and a reset lamp / push-button switch. Each LED lamp represents and displays the status of one sensor. When a door remains open the lamp for that door remains illuminated and when a door closes remains extinguished as long as the door is closed. When an LED / push-button is pressed, the lamp for that door constantly flashes indicating that door is out of service. The keyswitch on the panel is used to inhibit the bypass mode to prohibit unauthorized bypassing any of the doors. The audible piezo sounds when a door opens and remains sounding until the door is closed. A mode is possible where the lamp remains illuminated and the audible piezo sounding until both are manually reset by attending personnel, then the lamp indicates the true status of the door.

790-8ZB SPECIFICATIONS

Electrical Specifications

Power Input: Low voltage 50VA Class 2 Power Transformer inserted into an unswitchable 120 Volt 60 Hz electrical outlet.
Sensor Conductors: Two conductors shielded # 22 gauge AWG 500ft. Maximum

Physical Specifications

Dimensions: Height 18.25" Width 12.25" Depth 4.37"
Weight 15 lbs.

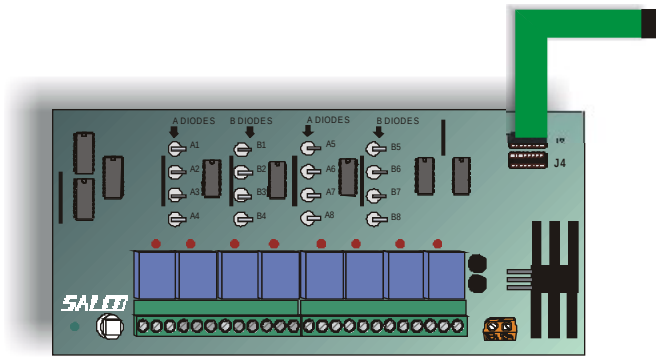
Environmental Specifications

Operating Temperature: 32 to 158 °F (0 to 70 °C)

NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

790 SERIES SYSTEM OPTION:

708 CONTACT OUTPUT PER ZONE MODULE



APPLICATIONS

Activate CCTV cameras, digital communicators, horns, etc.

Interface with existing control panels and access control systems.

Activate lighting systems.

The 708 provides a SPDT relay contact output per zone.

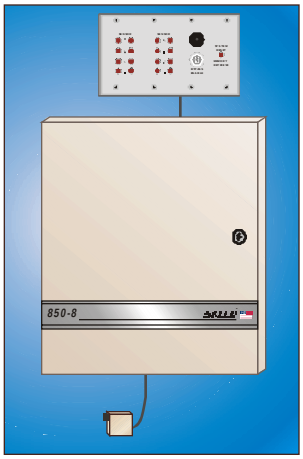
The individual output relay contacts can be triggered in two ways: when the associated control instrument panel is armed or on a 24 hour basis on any zone. An LED per output relay illuminates whenever a relay is energized. All zones are programmed independently for the mode the installer chooses.

The output contacts can follow the violation and restoral of the protective loop or latch on the violation of a protective loop. In the latch mode, the contact output is reset only after the associated control instrument panel is disarmed.

708 CONTACT OUTPUT PER ZONE MODULE SPECIFICATIONS

Physical dimensions: 8 3/8" x 3 5/8" x 1" (21.2cm x 9.2cm x 2.54cm.)
Electrical: Operating Voltage - 12 volts DC
Current Drain - All relays energized 430 ma
All relays de-energized 15 ma
Output relay contact rating - SPDT, 2 Amps, 24 Volts DC Max
Environmental: Temperature Range 32 - 158 °F (0 - 70°C)

850 Series Systems Available In Multiples Of 8 Zones



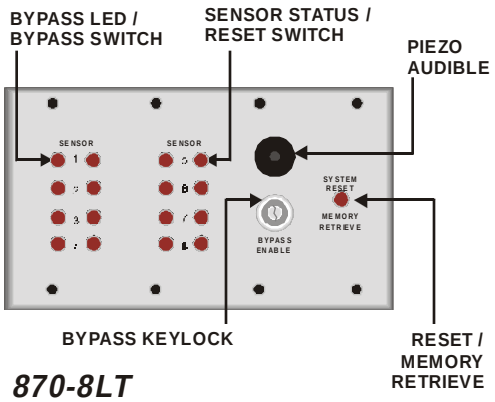
APPLICATIONS

- Monitor Door Status in Large Buildings such as: Hospitals, Nursing Homes, Government Buildings,Warehouses.
- Control Door Strikes to Open Doors on Request.
- Interface with Access Control Systems.
- Individual Door Site Display and Reset Control in Care Centers.
- Doctor's Multiple Rooms Patient Occupancy Data.
- Monitor Machinery Contacts on the Factory Floor.
- Monitor Almost Any Type of Sensor with a Contact Output.

The 850-8 is factory ready to monitor up to 8 normally open or closed alarm sensors. The system comprises the 850-8 processor, 870-8LT remote control and display panel, an uninterruptible power supply and backup battery, and a class 2 power transformer which must be inserted into a 120V unswitchable electrical outlet. Installation is just a matter of connecting your sensors to the 850-8 and the remote display panel.

The 870-8LT remote display panel has a red alarm status indicator light / pushbutton switch and a yellow bypass indicator light / pushbutton control switch for each individual sensor. The status indicator lamp represents the true state of the monitored sensor even when bypassed. When a sensor is violated or restored the status indicator lamp will flash and the audible piezo will sound until the reset button associated with this sensor is depressed. When reset, the audible stops sounding, and the status lamp will stop flashing and will revert to the true status of the sensor, i.e. constant illuminated for violated, extinguished for normal.

Annunciator processors and display panels available in multiples of 8 zones.



870-8LT

Individual control of each door sensor can also be obtained with the optional 870-1LT control station. An individual indicator lamp flashes during sensor alarm conditions and can be silenced with a reset control keyswitch. Each 870-1LT station can also be selectively armed and disarmed using this keyswitch.

The optional 880-8SS solid state relay module or the 880-8RM heavy duty dry contact relay module present an output per input sensor and an individual output per input sensor which has been bypassed.

4

SYSTEM 850-8 SPECIFICATIONS

Electrical Specifications

Power Input: Low voltage AC via 16.5 volts 50 va class 2 power transformer inserted into an unswitchable 120 volts 60Hz electric outlet.
Backup Battery: Rechargeable lead-acid type 7 ampere-hour maximum.
Input Signals: Normally open or normally closed dry contacts. Normally closed contacts wire runs must not exceed 250 ohms. RL terminal voltage 10 - 14 Volts DC
Input Scan Time: 250 MS
Output Signals: Master Output Relay: Form C (SPDT) contact rating 2 amps 24 VDC maximum.
Auxiliary 1 and 2 Relays: Form A (SPST) 0.5 amps 24 VDC maximum
Wiring: Door Sensors: 2 conductors # 22 AWG gauge or heavier shielded **Remote Display 870-8LT:** 40 conductors # 22 AWG gauge or heavier shielded

Physical Specifications

Enclosure with Keylock **Physical Dimensions:** 19" x 19" x 4.25" (48cm x 48cm x 10.8cm)
Material: 18 gauge steel with ventilation slots and piano type hinge
Color: Beige
Remote Display and Control Panel 870-8LT Standard 4 gang brushed stainless steel panel
Physical Dimensions: 8.25" x 6.37" x 1.5" (20.95cm x 16.18cm x 3.81cm)

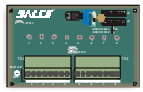
Environmental Specifications

Operating Temperature: 32°F to 158°F (0°C to 70°C)
NOTE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTIFICATION.

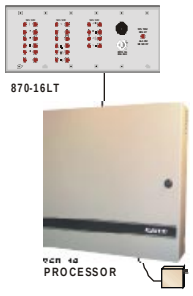
FEATURES and OPTIONS

- Manual reset sequence (Acknowledge) - piezo audible sounds on a sensor violation or restoral until manually reset.
- Manual reset sequence (Acknowledge) - Violated sensor's dedicated LED lamp illuminates flashing on a sensor violation or restoral until manually reset. After being reset the LED lamp displays the real time true status of the sensor. Audible sounds until acknowledged on a violation or restoral.
- Automatic reset sequence - Piezo audible sounds for 5 seconds on a sensor violation and restoral. The dedicated lamp for the violated sensor illuminates and remains illuminated as long as the sensor is violated. The LED lamps always displays the real time true status of all sensors.
- Choice of either manual or automatic reset sequence of operation made via field programmable DIP switch.
- Entry alert activates the audible sound for 5 seconds when in the manual sequence mode of operation regardless of the duration of the violation.
- Selectively delete (bypass) sensors from the system causing the deleted sensor's yellow lamp to illuminate. Deleted sensors will cause no alarm on a violation but the violated sensor's dedicated LED red lamp displays the real time true status of the sensor. The 8 yellow lamps have integral pushbuttons for the bypass function.
- Keyswitch enables or disables the delete (bypass) sensor function for authorized personnel.
- Master output relay common to all sensors transfers (activates) on alarm and on a power failure.
- Auxiliary relay 1 transfers (activates) and remains activated as long as any of the sensors is deleted (bypassed).
- Auxiliary relay 2 transfers (activates) whenever entry-alert sounds for 5 seconds on violations in the manual or automatic sequence mode of operation.
- Memory active when in the automatic reset sequence of operation. Trace the sequential order of multiple alarms.
- Memory history enables the retrieval of sensors which caused an alarm during the previous memory cycle.
- Test all LED lamps by depressing a pushbutton.
- Accommodates 2 optional relay modules.
- Optional module 880-8SS with 8 solid state relays, one per input sensor. All relays transfer on either sensor violations and restorals, or on sensor deletion (bypass).
- Optional module 880-8RM with 8 heavy duty relays one per input sensor. All relays transfer on either sensor violations and restorals, or on sensor deletion (bypass).
- Optional door site single zone remote display and control panel.
- Uninterruptible power supply powered via a class 2 transformer with a 7 ampere-hour lead-acid type backup battery

850-8 SERIES SYSTEM OPTIONS

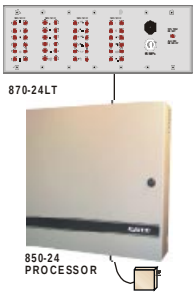
	**Door Site Display and Control Panel 870-1LT** Standard single gang brushed stainless steel panel **Physical Dimensions:** 4.5" x 2.75" x 1.5" (11.43cm x 6.99cm x 3.81cm)
	**880-8SS Opto Isolated Output Module** Provides 8 independent optically isolated outputs that can be programmed to output either independent door status or bypass functions.
	**880-8RM Heavy Duty Relay Module** 8 Independent Heavy Duty Relay Outputs can be programmed to output independent door status or bypass functions

SYSTEM 850-16



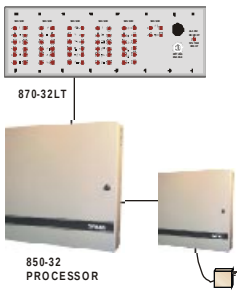
16 ZONES

SYSTEM 850-24



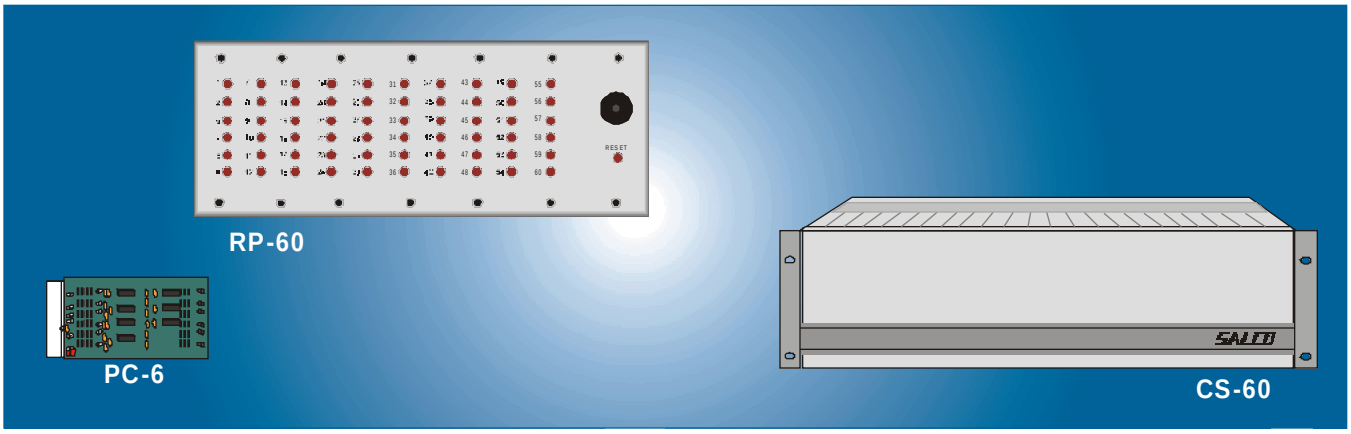
24 ZONES

SYSTEM 850-32



32 ZONES

CS-60 INDUSTRIAL ZONE ANNUNCIATOR



The system CS-60 features a standard 19" rack with high density backplane, and a remote LED display. Upon loop violation a zone LED flashes and a common piezo sound alert latches. A common pushbutton reset switch silences the audible and places the violated zone in the auto-reset mode yielding the true status of the violated loop. Therefore, the next violated zone can be immediately identified (FLASHING LED) even though other LED's are on constantly because of previously violated zones.

The system CS-60 includes one 19" rack, one common control card model CC-1, a 7 gang stainless steel remote plate model RP-60 with 60 LED's, one common reset switch, and a piezo sound-alert. For each 6 zones required a plug-in card model PC 6 must be ordered. For example, when purchasing equipment for a 42 zone system the following must be ordered: (1) CS-60 and (7) PC-6 plug-in cards.

SPECIFICATIONS

ELECTRICAL

Power Supply: 12 Volts DC 2 Amp Continuous
Output Contacts: 0.5 Amp 24 VDC Maximum
Door Contacts: Normally Open or Normally Closed
Door Contacts Conductor Runs: Two conductors # 22AWG gauge or heavier.
Maximum length 500ft shielded 200ft unshielded.

PHYSICAL

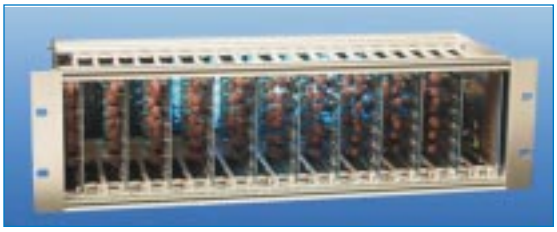
CS-60: Standard Rack ANSI / EIA RS-310-C Size: 19" x 7 3/4" x 5 1/4" (including plane)
RP-60 LED Panel: Standard 7-gang electrical 13 5/8" x 4 1/2" or custom made to your specifications.

ENVIRONMENTAL

Temperature Range: 32° to 158°F (0° to 70° C)

NOTE: Specifications subject to change without notice.

CS-60 MULTI-ZONE ANNUNCIATOR



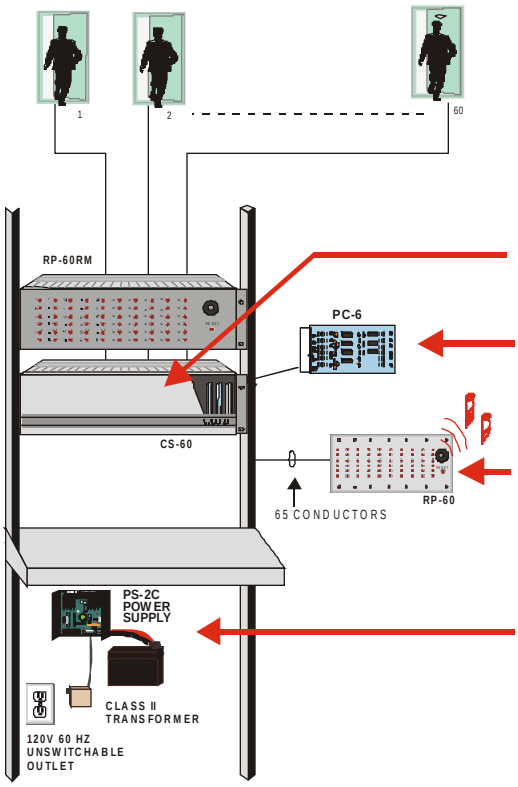
Applications:
Colleges, Universities, Schools
Stores, Museums
Hospitals, Nursing Homes
Mini-storage facilities, Warehouses

The CS-60 is a semi-custom system specifically designed for monitoring the status of doors in facilities such as warehouses, hotels, schools, healthcare facilities, etc. The system can monitor any number of protective loops (i.e. doors) from 6 to 60. For each six zones, a plug-in card model PC-6 is inserted into a 19" rack. All protective loops are terminated on the back plane of the 19" rack. The remote LED panel can have 6 to 60 LED's depending on the number of zones in the application. Common output normally open and normally closed contacts can interface with an existing host system.

Upon a protective loop violation - a door opens for example - the LED lamp designated for that door constantly flashes and a piezo audible constantly sounds to draw attention to monitoring personnel. A common pushbutton reset switch silences the audible and places the violated zone in the auto-reset mode yielding the true status of the violated zone. As long as the zone is violated the LED lamp for that zone remains illuminated. The next zone which becomes violated can be immediately identified with its flashing LED and the audible sounding to attract attention. Previously violated zones will have their LED's illuminated indicating their doors are still open. When a door closes again - a zone is restored - the LED for that zone extinguishes.

5

INDUSTRIAL DOOR ANNUNCIATOR FOR SIXTY DOORS



The industrial door annunciator system comprises:

CS-60 processor for mounting in a standard 19" rack
PC-6 six zone processor boards
RP-60 display panel
PS-2C power supply.

The system can interface with your existing security system.

CS-60 Processor
The CS-60 processor houses a maximum of ten PC-6 processor boards to monitor a total of sixty doors.. All door protective loop wires are terminated on the backplane of the CS-60.

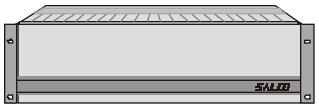
PC-6 Processor Six Doors
For each group of six doors to monitor a plug-in card model PC-6 is inserted into the CS-60.

RP-60 Display Panel
The RP-60 display panel is mounted on a seven gang stainless steel plate or can be custom made for your specific application to mount in a standard 19" rack or graphic display.

Power Supply Model PS-2C
The PS-2C is an uninterruptible power supply including a Class 2 Power Transformer which inserts into an 120 Volt 60 Hz electric utility receptacle, and a 7 Ampere-Hour Rechargeable Lead-Acid Battery. The power supply can deliver a maximum continuous current of 2.0 amps at 13.7 volts DC. During a loss of AC power the battery can supply a maximum of 4 amps surge on demand.

CC-1 Common Control Card

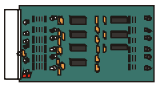
CS SERIES SYSTEM COMPONENTS



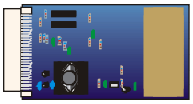
CS-60

CS-60 REAR VIEW
SHOWING BACKPLANE
AND 19" RACK FOR 60 ZONES
LOOPS AND LED TERMINATIONS

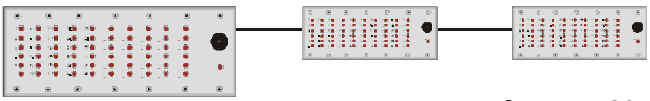
Enclosure: Standard Rack ANSI/EIA RS-310-C **Size:** 19" x 7 3/4" x 5 1/4" (including backplane)



PC-6 PLUG IN CARD
6 ZONES EACH INSERTS
INTO THE CS-60 19" RACK



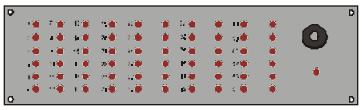
CC-1
COMMON CONTROL CARD



ANNUNCIATE UP TO 3 REMOTE LOCATIONS!

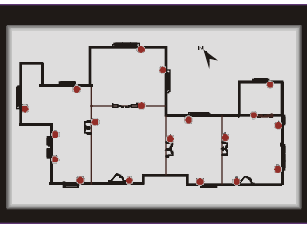
RP-60 60 ZONE ANNUNCIATOR LED
PANEL ON 7 GANG PLATE

The RP-60 display panel can be the standard 60 zone LED panel or a custom made LED panel for your specific application. The LED's, piezo, and reset pushbutton switch are mounted on a 7 gang stainless steel plate.



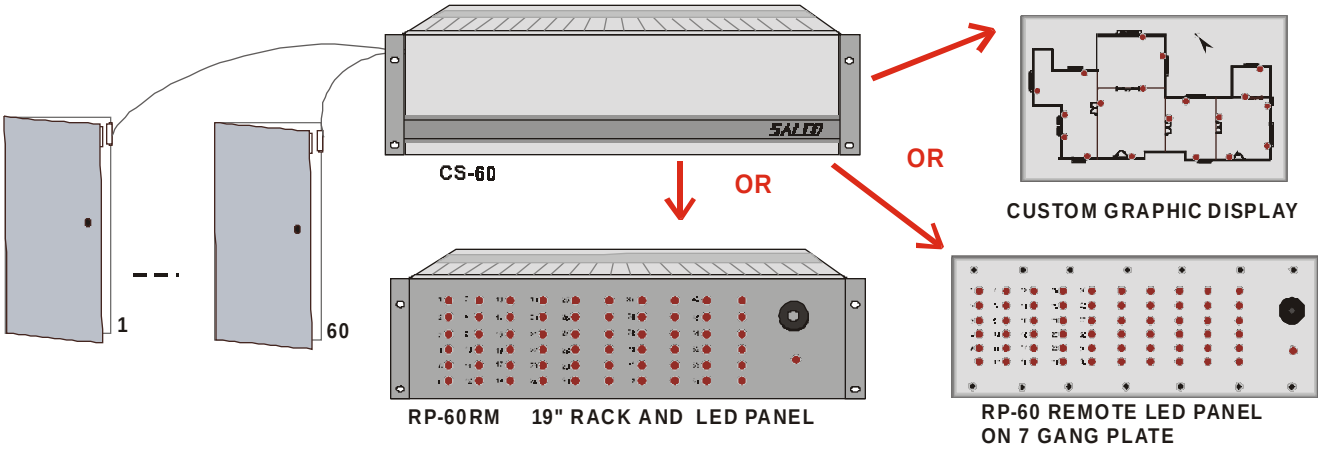
RP-60RM
LED PANEL 60 ZONES FOR 19" RACK

The RP-60RM LED panel mounts in a standard 19" rack. 60 LED's, a piezo, and pushbutton switch are mounted on an aluminum panel. Custom made LED panels for fewer zones are available for your specific applications. Physical dimensions are: 16.75" x 5.25" x 0.25"



CUSTOM GRAPHIC DISPLAY

Submit an exact camera ready print of your facility layout and our custom department will fabricate an exact copy of the print submitted onto a brushed aluminum panel. Custom labeling is also available.



5

SYSTEM CS-60/C

The system CS-60/C monitors 60 normally open or normally closed sensor contacts such as those placed on doors, windows, industrial machines, etc. Almost any type of sensor which has an output relay contact can be monitored by the CS-60/C. The system is prewired and requires field wiring of two conductors per monitored sensor to screw terminals on a high density backplane.

The system comprises a high quality cast aluminum cabinet with a frame construction with removable back cover, anti-sliding feet for desktop placement, and shaped depth carrying handles. Standard 19' technology is used to house ten six zone circuit cards and one common control card.

Upon a sensor violation its respective LED lamp flashes ON and OFF and a common piezo audible sound-alert remains sounding. A common pushbutton reset switch silences the audible sound and the LED lamp yields the real time true status of the violated sensor. if the violated sensor remains violated the LED will remain illuminated. If the violated sensors has restored the LED will be extinguished.

SPECIFICATIONS

ELECTRICAL

Power Supply Requirement: 120 Volts 60 Hz via Class 2 16.5V 50VA power transformer supplied
Output Relay Contacts: 0.5 Amp 24 VDC Maximum (QTY.2)
Sensor Contacts: Nornally Open or Normally Closed
Sensor Contacts Conductor Runs: Two conductors # 22AWG or heavier. Maximum length shielded 500ft unshielded 200ft.

PHYSICAL

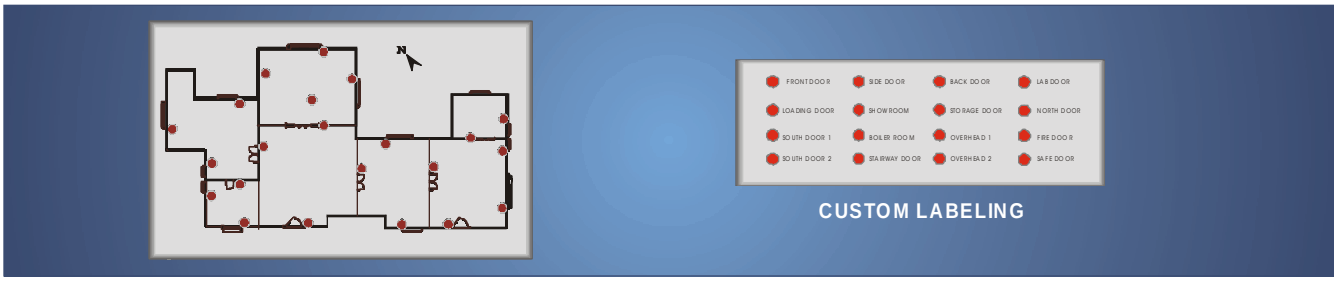
Case Enclosure: ANSI/EIA RS-310-C Frame construction with removable back cover
Finish: Stone gray
Material: Cast aluminum
Size W x H x D: 20.187" x 11" x 11.75" (51.27cm x 27.94cm x 29.85cm)
Weight: 25 lbs

ENVIRONMENTAL

Temperature Operating Range: 32 - 158 °F (0 to 70 °C)

NOTE: Specifications subject to change without notice.

CUSTOM GRAPHIC DISPLAY GD



GD series custom remote control display / bypass / annunciator panels indicate the status of zones or sensor points, with an LED lamp for each zone or sensor point. Each LED lamp can also function as a pushbutton switch, to bypass zones or sensors, by depressing it momentarily. The LED lamp for the bypassed zone will flash as long as the zone remains bypassed to indicate to the user the zone is out of service. Custom labeling is also available.

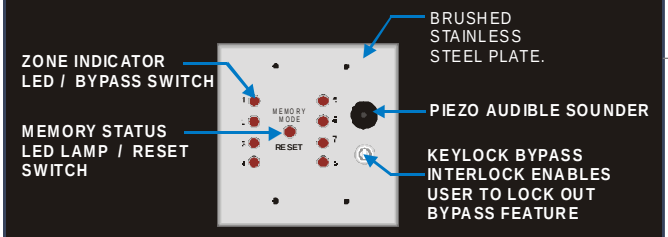
Maximum Size: 34" width x 36" length (86.4 cm x 91.4 cm)
Material: 1/8" (0.3175cm) thick brushed aluminum

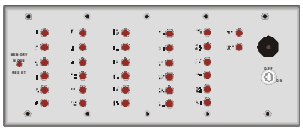
An exact black and white camera ready print of the facility must be submitted on mylar material to SALCO's custom department. Salco will then fabricate an exact copy of the submitted print onto a brushed aluminum panel. Contact the factory with your exact requirements.

LT SERIES REMOTE ANNUNCIATOR PANELS

FEATURES:

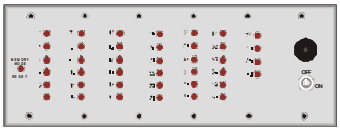
SOLID STATE LAMPS.
TACTILE FEEDBACK PUSHBUTTONS.
COLOR CODED WIRES.





770-32LT

32 ZONES
5 GANG
10.0" X 4.50" X 2.0"
70 CONDUCTORS

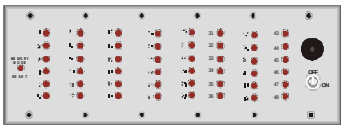


770-40LT

40 ZONES
6 GANG
11.75" X 4.50" X 2.0"
86 CONDUCTORS

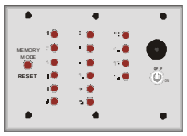
770-8LT

8 ZONES
2 GANG
4.63" X 4.50" x 2.0"
22 CONDUCTORS



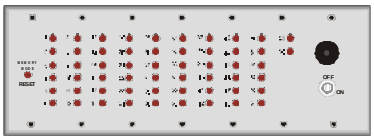
770-48LT

48 ZONES
6 GANG
11.75" X 4.50" X 2.0"
101 CONDUCTORS



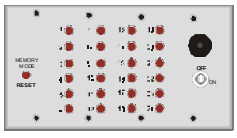
770-16LT

16 ZONES
3 GANG
6.38" X 4.50" X 2.0"
38 CONDUCTORS



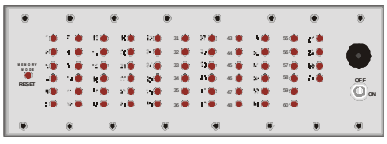
770-56LT

56 ZONES
7 GANG
13.63" X 4.50" X 2.0"
125 CONDUCTORS



770-24LT

24 ZONES
4 GANG
8.25" X 4.50" X 2.0"
54 CONDUCTORS



770-64LT

64 ZONES
8 GANG
15.50" X 4.50" X 2.0"
140 CONDUCTORS

ORDER PLACEMENT

Product orders can be placed by calling the Order Desk at 941-377-7717 or by fax at 941- 379-9680.

PAYMENT TERMS

NATIONAL ACCOUNTS:

All new accounts will be on a C.O.D. basis, cash or certified check. A credit application can be processed after a purchase history having a total volume of $5,000.00. On open credit accounts our standard terms of sale are net 30 days following the date of the invoice. There are no discounts for early payment. We accept Visa or MasterCard.

INTERNATIONAL ACCOUNTS:

SALCO also accepts orders from other countries. International orders will be processed on receipt of a Cashier's Check in U.S . funds or a direct wired Telegraph Transfer (TT) to our U.S. bank.

INTEREST ON PAST DUE ACCOUNTS:

Interest at maximum legal rate or 1 1/2% per month, whichever is lower, may be charged on overdue accounts and such amount will be charged from the date the account became overdue.

MINIMUM ORDER

The minimum acceptable order is $25.00.

PRICES

Prices are subject to change without notice. Those in effect when we receive your order will apply. All prices are in U.S. currency, F.O.B. Sarasota, Florida.

SHIPMENTS

Unless you request a specific shipping method, our staff will determine the most expedient and efficient means of transportation. Appropriate charges such as freight, handling, and insurance will be added to your invoice. SALCO ships most of its orders via United Parcel Service by one of three methods and are as follows:

1. Ground Service **(Brown Label)** - Delivery is approximately 2 to 7 working days for most of the continental United States and some parts of Alaska and Hawaii. The cost of Ground Service is the most economical of all three services.

2. Air Service **(Blue Label)** - Delivery is approximately 2 to 3 working days for most of the Continental United States and some parts of Alaska and Hawaii. The cost, however, is two to three times greater than UPS "Ground Service".

3. Air Service **(Red Label)** - Delivery is overnight for most of the Continental United States and some parts of Alaska and Hawaii. The cost is two to three times greater than Air Service (Blue Label).

For physically large and heavy shipments, Common Carrier truck is most economical. FEDEX, DHL, and others are also available. Shipping charges are F.O.B. Sarasota. Florida.

CUSTOM ORDERS

Custom orders and products made to order are by special order only. A 50% down payment must accompany the purchase order and the balance is due on delivery. All custom orders, and products made to order, are non cancellable, non refundable and equipment non returnable except for repairs accompanied with a SALCO authorized Return Authorization Number.

RETURN OF MERCHANDISE

Merchandise for repair should only be returned, shipping charges prepaid, after a Return Authorization Number has been granted by SALCO. All returns are subject to transportation charges. Defects and shortages must be reported within three days after receipt of merchandise All returned merchandise issubject to a 25% restocking charge. We reserve the right to accept products for repair only(not replacement).SALCO has a no return policy on all products shipped. Except for warranty repairs, all repairs are shipped C.O.D. No cash refund. Merchandise credit only.Credit void after 12 months.

FREIGHT DAMAGE

Your order is filled, checked, and rechecked, and packed with great care. If you receive merchandise that has been damaged in transit it is important to keep the shipping carton, packing materials, and merchandise intact.Please contact the shipper immediately to initiate a claim. Also, please contact SALCO customer service.

SALES TAX

Only Florida residents need to remit the appropriate Sales Tax. SALCO is not able to remit sales tax to states other than Florida

WARRANTY

As an expression of confidence that our products will continue to meet the high standards of reliability and performance that our customers expect, SALCO products carry a 365 day warranty (limited). Call or write for full warranty information.

DESIGN CHANGES

Due to continuing improvements in design, some items may differ slightly from the description and photograph in the catalog. If you have any questions, our Application Specialists will be happy to discuss any design improvements and advantages. SALCO does not provide on-site support.

SUBJECT TO CHANGE WITHOUT NOTICE

All prices, merchandise model numbers, specifications, terms and policies are subject to change without notice.

SALCO™ INDUSTRIES
TEL: 941-377-7717
FAX: 941-379-9680
www.salco.com
e-mail: Security@Salco.com

The information presented in this catalog has been carefully checked and is believed to be accurate, however, no responsibility is assumed for inaccuracies. SALCO reserves the right to make changes without further notice to the products specified herein to improve reliability, function, or design.

SALCO radio controls provide a reliable communications link and fill an important need in portable or wireless signaling. However, there are some limitations which must be observed.

- The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such they have limited transmitter power and therefore limited ranges.
- Receivers may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- A receiver cannot respond to more than one transmitted signal at a time.
- Infrequently used radio links should be tested regularly to protect against undetected interference or faults.
- A general knowledge of radio and its vagaries should be gained prior to acting as a wholesale distributor, dealer, or private installer, and these facts should be communicated to the ultimate users.

FEDERAL COMMUNICATION COMMISSION LICENSING

SALCO long-range supervised-wireless systems require an FCC site license for operation in the U.S.A. Various independent services can be of assistance in frequency coordination and FCC license applications. In addition, FCC rules stipulate the user's call sign must precede all voice transmissions.

SAFETY PRECAUTIONS

The Federal Communications Commission (FCC) has adopted a safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated equipment. In order to limit user exposure to levels substantially below the FCC recommended limits the following guidelines should be adhered to:

DO NOT HOLD THE TRANSMITTER SUCH THAT THE ANTENNA IS IN CLOSER PROXIMITY TO OR TOUCHING EXPOSED PARTS OF THE BODY, ESPECIALLY THE FACE OR EYES WHILE TRANSMITTING. DO NOT ALLOW CHILDREN TO PLAY WITH RADIO TRANSMITTERS. DO NOT OPERATE THE TRANSMITTER NEAR UNSHIELDED ELECTRICAL BLASTING CAPS OR IN AN EXPLOSIVE MANNER.

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