LifeGuard NETWORKS
SHIELD
SPACE AGE ELECTRONICS

EMERGENCY COMMUNICATION SYSTEM
Operations Manual

The SHIELD30 Emergency Communication System allows the user at a Remote Call Station to get in contact with the Call Center or directly to the Command Panel Operator in case of an emergency.

This document goes over the hardware specifications and navigating the Command Panel and devices:

SM30V – Command Panel Silver.
SM30B – Command Panel Blue.
SCOMM1 – Communicator, included in Command Panel.

SR01V – Remote Call Station, Semi Flush, Silver.
SR01B – Remote Call Station, Semi Flush, Blue.
SR02V – Remote Call Station, Surface, Silver.

SRBV – Remote Back Box, Semi Flush, Silver.
SRBB – Remote Back Box, Semi Flush, Blue.
SRLBV – Remote Back Box, Surface, Silver.

SISOE – Isolator in enclosure, Blue.
SISOV – Isolator in enclosure, Silver.

SMALMRLY – Alarm interface Relay in enclosure.
SMSUPRLY – Supervision relay, included in Command Panel.

SSU00123 – Device priority and document enclosure.
SMLIST10 – Additional device priority plate.

PSN-64 – PSN-64 Power Supply.

Table of Contents:

1. INTRODUCTION

The SHIELD Emergency Communications Systems is a digital system consisting of several parts:
The Command Panel (CP), Remote Call Station (RCS), an Alarm Relay,
an off-site Communicator, and a Power Supply.

The Command Panel (CP) is a device that allows the user at a Remote Call Station to get in contact with the Call Center or directly to the Command Panel Operator in the case of an emergency.
The Command Panel is interfaced through a color LCD touch screen, which is discussed in detail (Section 2, "Introduction"). The touch screen allows access to emergency calls, other menus such as Events, Menu Configuration, and displays a warning when a Trouble is signaled. The Command Panel also includes a corded Push To Talk (PTT) microphone. The Command Panel Operator may use the PTT
microphone to communicate with the user at the Remote Call Station.

Inside the Command Panel is a terminal strip for connection to the conductors for the emergency communication system. All terminal strips used in the SHIELD system for the field wiring of the communication and power circuits to the Remote Call Station are listed for up to 18Ga and 2 conductors per terminal.

Configuration of the Command Panel is done via computer through an Ethernet connection. Configuration is only required to set the text labels of the Remote Call Stations, IP addresses where required. The SHIELD system does not require programming for basic operation.

The Remote Call Station (RCS) is made up of two parts; the back box and cover assembly. These are sold and shipped separately so they may be installed separately.

The cover assembly is the front of the Remote Call Station which includes the button, Remote Processor module, speaker, and mic. The cover assembly ships with a pigtail off the terminals that will plug directly into the connector in the back box. Installation of the cover assembly consists of the two hinge screws, connection of the wiring plug, and two side screws, which are included with the cover assembly.
The cover assembly also includes a removable label window. Using the template labels may be printed on standard paper, cut out and inserted on every doorway, identifying the floor and location of the Remote Call Station.

Note: The Remote Processor module, located inside the cover assembly of a Remote Call Station, needs an address setting via. DIP Switch. This address must be unique and may be any number between 3 and 33. Refer to (Section 6.4, "Module Address Setting") for more details.
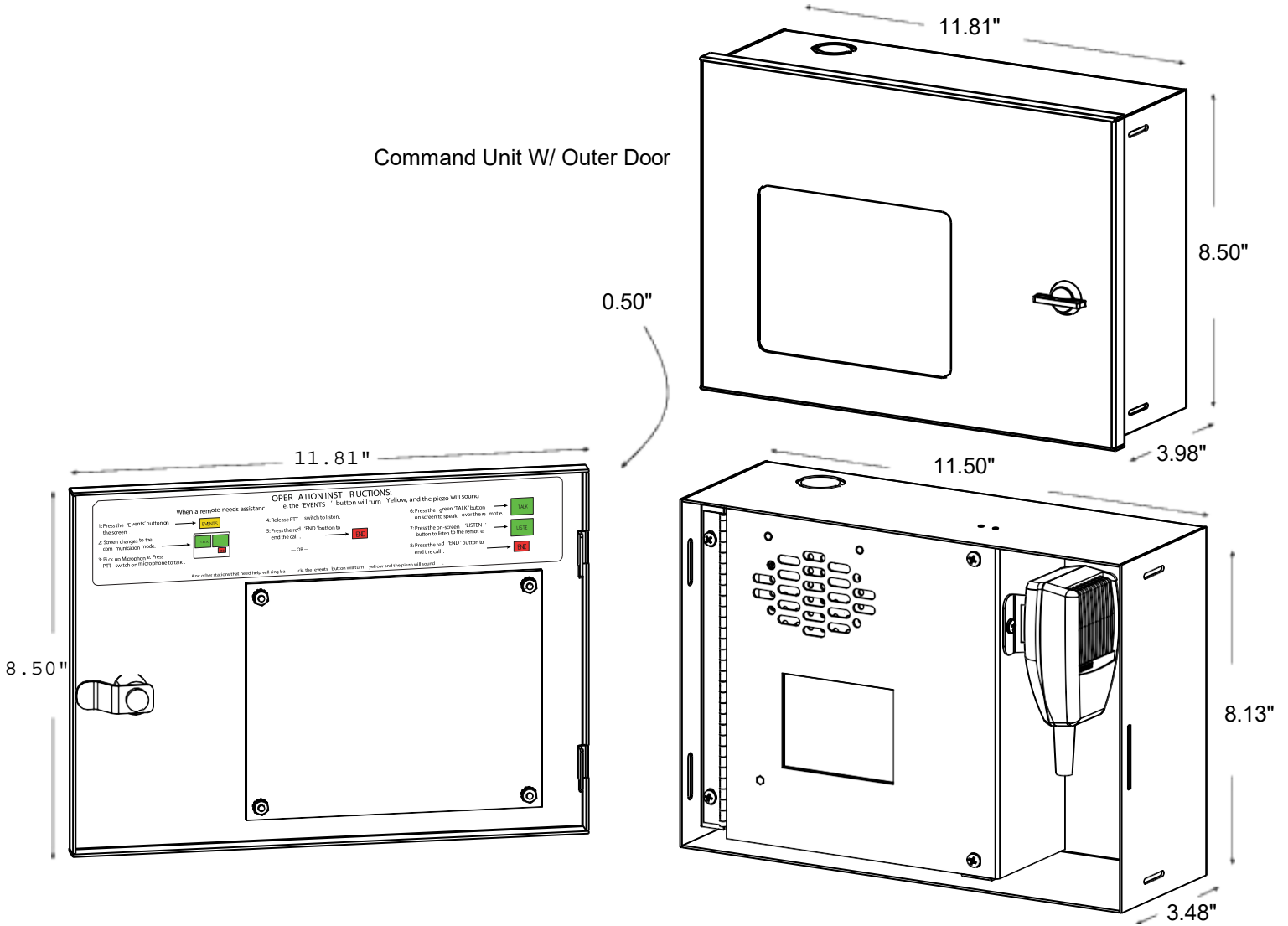
The Communicator allows the emergency call to be routed off-site to a standard phone connection at the Command Panel. See (Section 5., "Sequence of Operation"). This module must be configured with a recorded message identifying the location, as well as the off-site phone number to dial. Additional options may be set to delay the off-site call to allow for local operators to answer emergency calls first. Refer to the SHIELD30-Communicator Configuration Instructions manual for details on recording messages and file configuration. The Communicator runs off the system 24V and is protected by the battery backup of the system.

Power supply is a Life Safety-listed power supply capable of backing up the system in the event of a site power loss. The power supply will also report troubles for A/C and battery loss. These contacts are rated for and may be monitored by the local fire alarm if required.
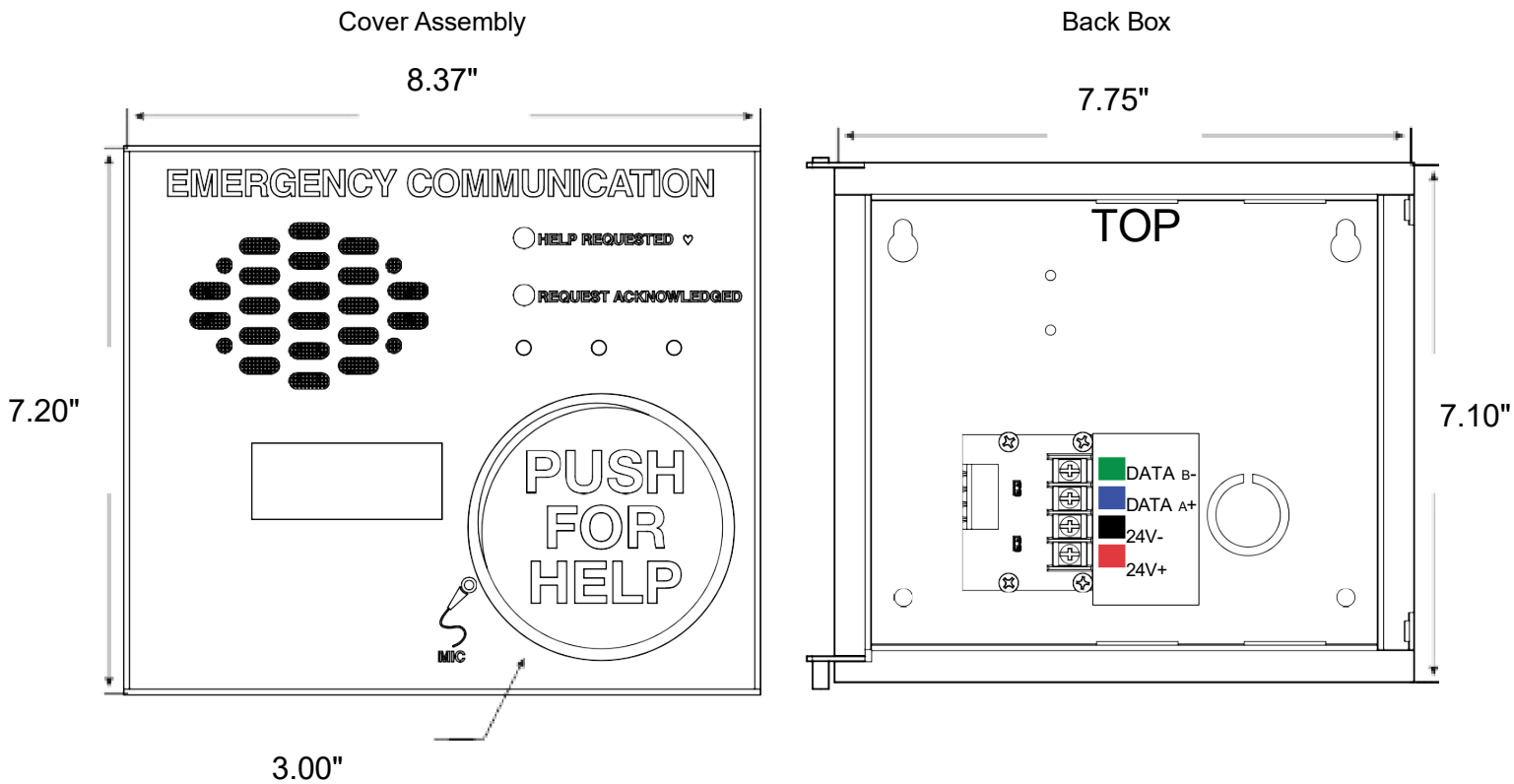
2. PRODUCT FEATURES

2.1 Command Panel

11.81"

Command Unit W/ Outer Door

8.50"

0.50"

3.98"

11.50"

11.81"

OPER ATION INST RUCTIONS:

When a remote needs assistanc   e, the 'EVENTS ' button will turn Yellow, and the piezo Will sound.

1:Press the 'Events' button on   EVENTS   4:Release PTT   switch to listen.   6:Press the green 'TALK ' button   TALK
the screen   on screen to speak   over the mot e.

2: Screen changes to the   TALK   5:Press the re d 'END 'button to   END   7:Press the on-screen 'LISTEN   LISTE
com munication mode.   end the call .   button to listen to the remote.

3:Pick up Microphon e. Press   — OR —   8:Press the red 'END 'button to   END
PTT switch on microphone to talk .   end the call .

Any other stations that need help will ring be   ck, the events button will turn   yell ow and the piezo will sound.

8.50"

8.13"

3.48"

• 4" color touch screen interface

• Surface or Flush Mounting with flange kit.

• 16 gauge steel housing with locked protective door

• Push To Talk microphone or on screen Talk/Listen controls.

• Mylar cone speaker.

• Terminal strip rated for 14-22 Ga conductors.

• System Wiring: 2-wire RS-485 and 2-wire 24V power in a daisy chain.

• Location to mount off-site Communicator inside Command Panel.

2.2 : Remote Call Station

Cover Assembly

8.37"

7.20"

EMERGENCY COMMUNICATION

○ HELP REQUESTED ♡

○ REQUEST ACKNOWLEDGED

○   ○   ○

PUSH FOR HELP

MIC

3.00"

Back Box

7.75"

TOP

7.10"

DATA B-
DATA A+
24V-
24V+

• 3" red button with white "PUSH FOR HELP"

• 16 gauge steel housing with screw and post hinge door (Stainless Or Blue).

• White LED identifies when Remote is acknowledged by Command Panel .

• Amber LED signals when remote is activated "Help Requested" .

• Security Torx hardware.

• Removable Identification label. Provides a professional look that is tamper proof.

• Mylar cone speaker.

• Speaker has vandal-resistant mesh grill and offset plate for speaker protection.

• Back Box PCB with shunts for testing circuit wiring.

• Polarized plug for simple connection of cover assembly.

• Highly visible terminal markings.

2.4 PCBOARD DIAGRAMS

Communicator (SCOMM1)

Remote PC Supervision LED
(Normally off, on for approximately 20 seconds after reset)

Processor Active LED
(In normal operation will blink approximately once every 2 seconds)

Power LED

NOT USED.
DO NOT CONNECT

NOT USED.
DO NOT CONNECT

Test Call Button

24V DC

Default
MAC Address
IP Address

On Hook
LED

RJ-11 Jack
Standard POTS Line

A UL497A protector is required to be
installed on the POTS line before
leaving the building.

RJ-45 Jack
Ethernet

WD0358
MAC-0050C2E3244A
IP:192.168.1.100
DATE: 1/4/2021
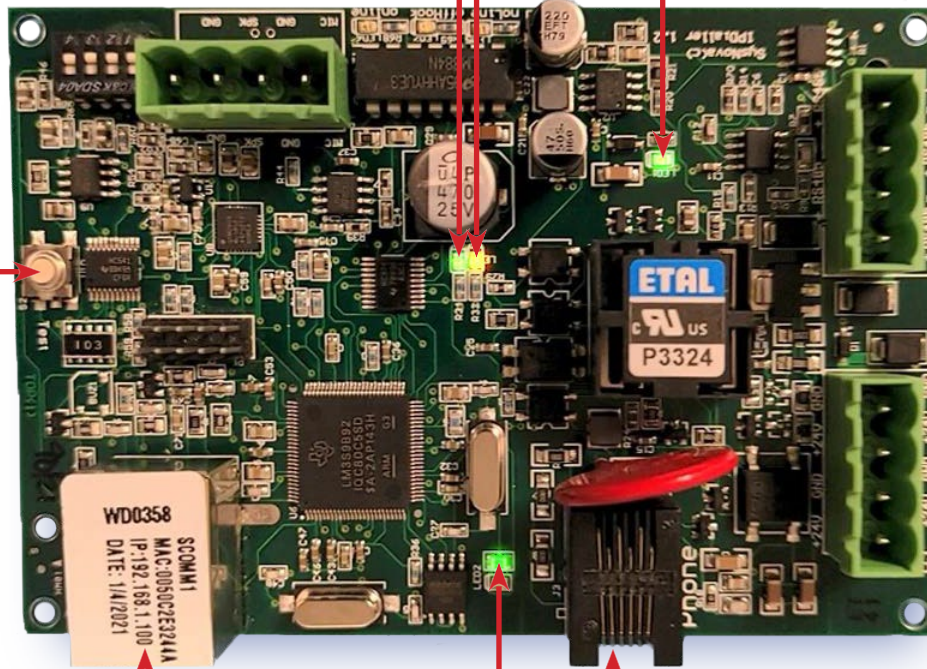
SPECS AND DETAILS

- Mounts in SHIELD30 Master Command Panel
- Allows emergency calls to be sent to a standard POTS Phone Line
- Set up Site-specific Messages and Instructions
  - Refer to *SHIELD30-Communicator-Configuration-Instructions*
    - (Section 2.1, "*Messages*")
- RJ-45 Ethernet Port connects Communicator with Command Panel
- Supports voice calls and Contact-ID with Voice
  - Refer to *SHIELD30-Communicator-Configuration-Instructions*
    - (Section 2.2b, "*Configuring the System*")
  - Refer to (Section 7.2, "*Testing*") in this current document

- Test Call Button - Calls to POTS Phone Line
- Operates off system 24V DC Power

Master

RJ-45

Network
Connection

Sound Piezo

FW:_TSD3_5
MAC:0050C2E3246A
IP:192.168.1.90
DATE: 5/17/2021

Default
MAC Address
IP Address

RJ-11 jack,
PTT Microphone

- GND
+ SPK
- GND
+ MIC

Speaker and
Panel Microphone

LCD Touch Screen
Clamp

Processor Active
LED

Supervision LED

Power
LED

RS-485 Jumpers

(Jumpers must be in pins 1-2 and 3-4)

Power
LED

24V DC

RS-485
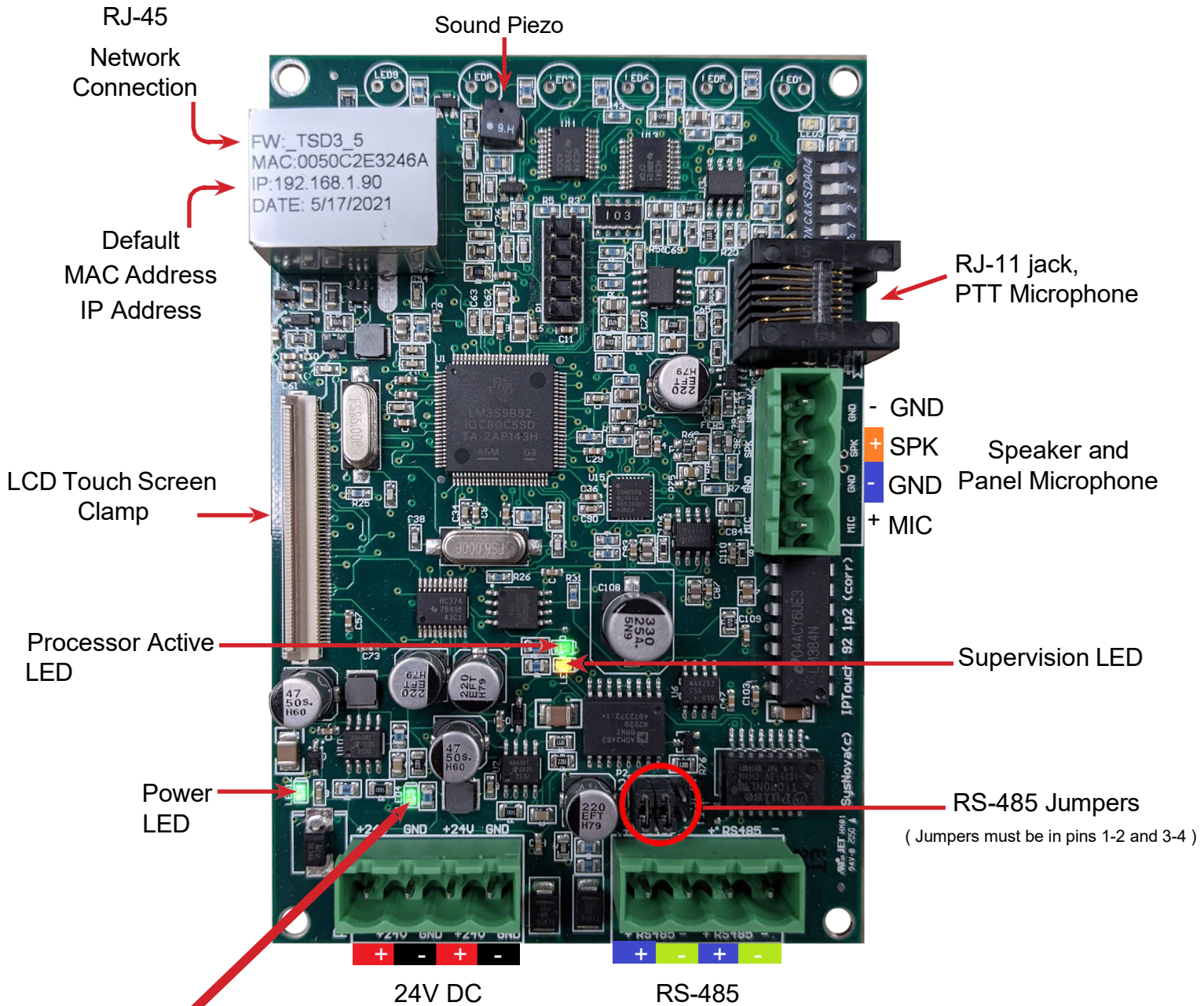
SPECS AND DETAILS

- Mounts in SHIELD30 Master Command Panel
- Connects to Speaker
- Connects to PTT Microphone and Panel Microphone
- Connects to LCD Touch Screen
- Connects to the Communicator (Network)
- Connects to the Relay and Remote Call Station (RS-485)
- Capable of functioning independently from a Communicator if only performing calls between Command Panel and Remote Call Stations.
  - Example: Waiting for a replacement Communicator.

- Operates using system 24V DC power.

Supervision Relay

P/N: SMSUPRLY
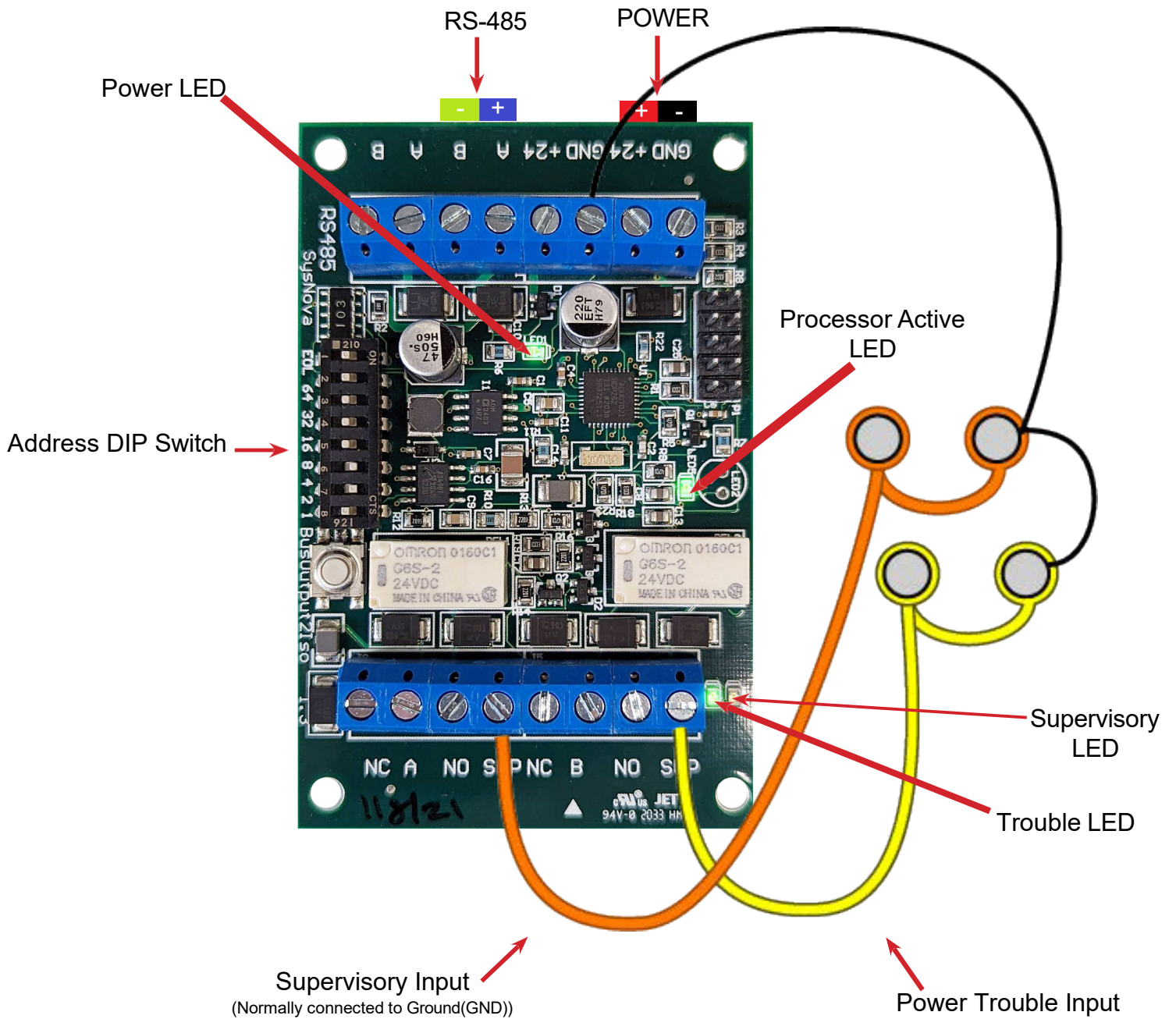
RS-485

POWER

Power LED

Processor Active LED

Address DIP Switch

Supervisory LED

Trouble LED

Supervisory Input
(Normally connected to Ground(GND))

Power Trouble Input

SPECS AND DETAILS

- Mounts in SHIELD30 Master Command Panel
- RS-485 Module Address DIP Switch
  - Each Relay gets its own unique number
- Power Trouble Input
- Supervisory Input
- Operates using system 24V DC Power

Alarm Relay

Power LED

Processor Active LED

Address DIP Switch →

ALARM Active

N/C
(Normally Closed)

C
(Common)

N/O
(Normally Open)
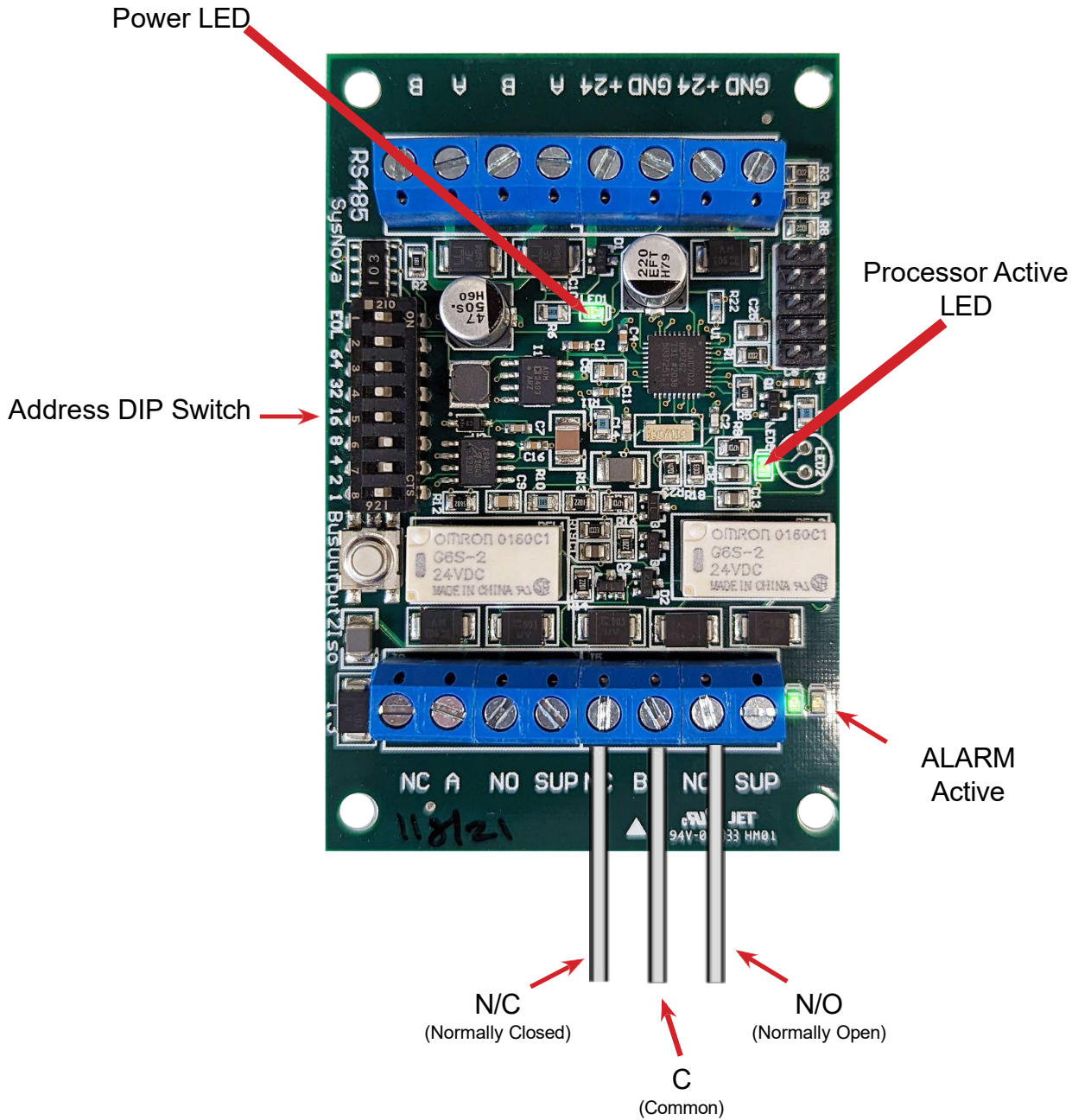
SPECS AND DETAILS

- Mounts outside of SHIELD30 Master Command Panel
- RS-485 Module Address DIP Switch
    - Each Relay gets its own unique number
- Operates using system 24V DC Power

Remote Processor Module

These two ports connect to the
Terminal Board, which is a small PCBoard in the backbox of a Remote Call Station.

RS-485   POWER

Processor Active LED

Power LED

Address DIP Switch

External LEDs and Speaker
connected here
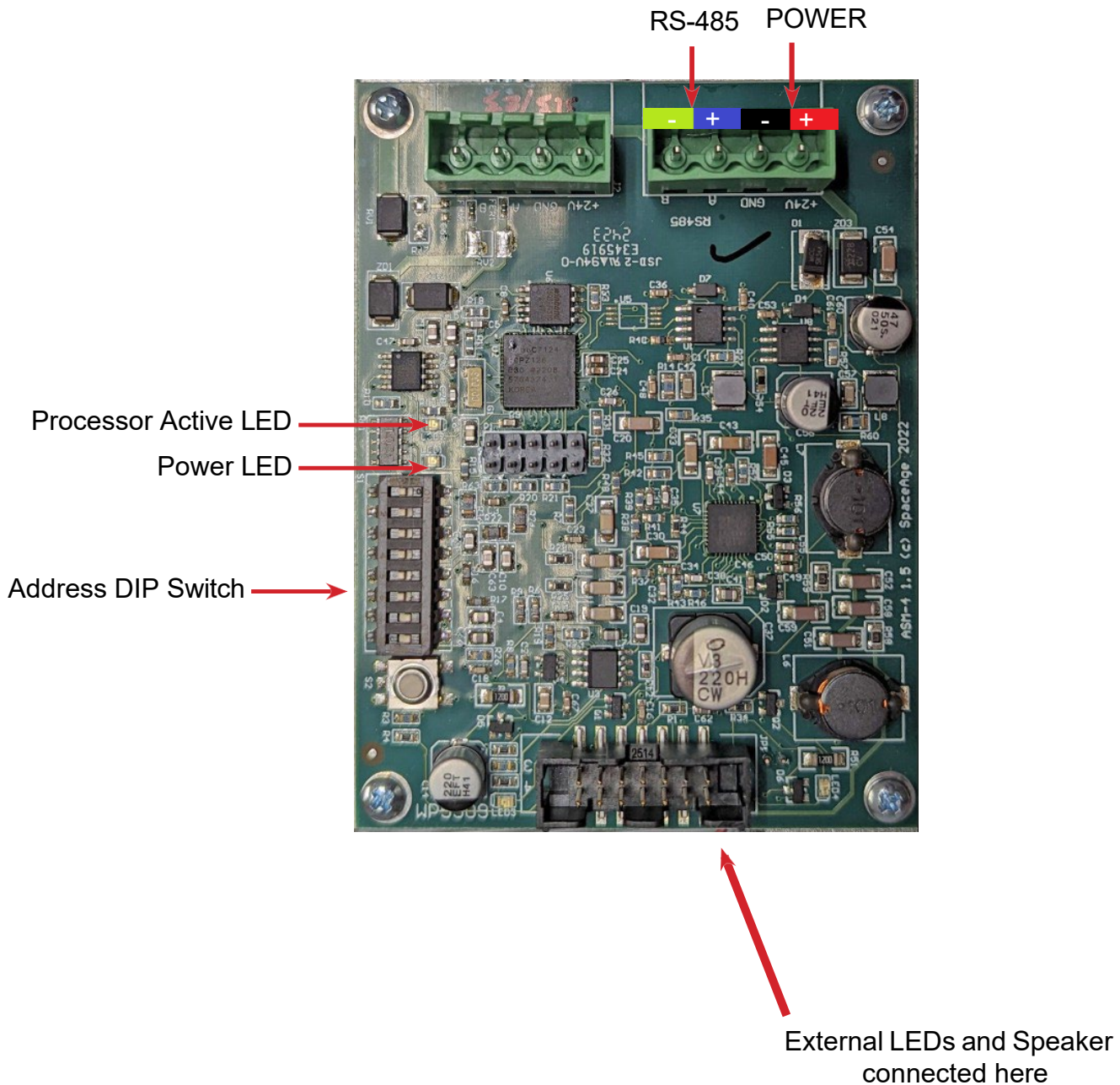
SPECS AND DETAILS

- Mounts to Cover Assembly of Remote Call Station
- Connects to Command Panel
- Connects to External LEDs
    - "HELP REQUESTED" - Amber
    - "REQUEST ACKNOWLEDGED" - White
- Address DIP Switch
    - Each Remote Call Station gets its own unique number.
- Operates using system 24V DC power.

Isolator

EOL

RS-485 Jumpers
(Jumpers must be in pins 1-2 and 3-4)

From Command Panel
or Previous Device

24V DC

GND

DATA A+

DATA B-

24V DC

GND

DATA A+

DATA B-

To next Device

DATA B-

DATA A+

GND

24V DC

T-Tap
(NEW RS-485 branch)

Processor Active
LED

Power
LED
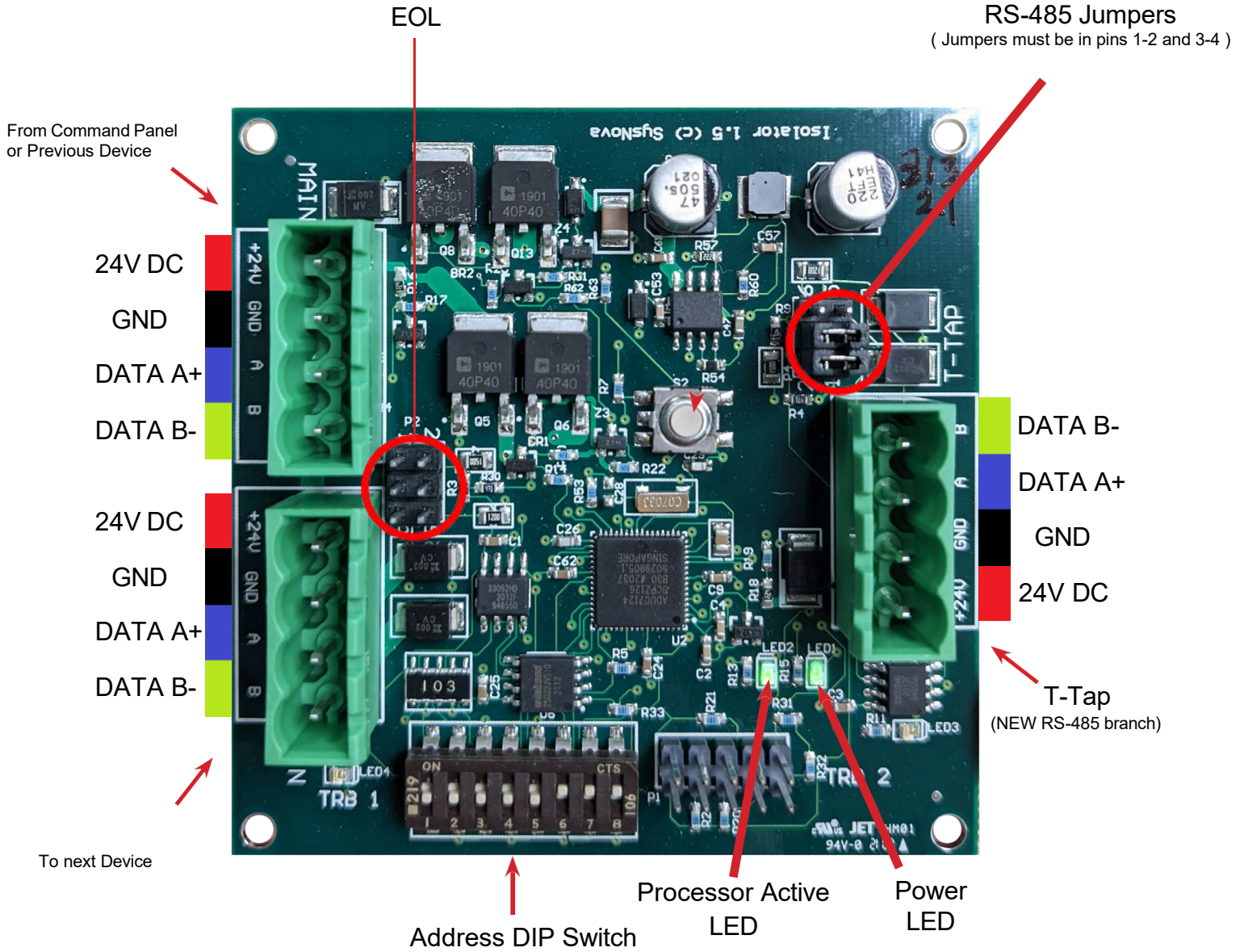
Address DIP Switch

SPECS AND DETAILS

- Connects to Remote Call Station and Command Panel
- Address DIP Switch
  - Each Isolator gets its own unique number
- T-Tap
  - Acts as an extension to add an extra 300FT of wire while boosting power and data transfer between devices.
- EOL
  - Enabled for the first and last device in a setup.
- Operates using system 24V DC Power

2.5 Electrical Ratings

Part Number		Voltage	Current In Standby	Current in Alarm
SM30V	Command Panel Silver	24Vdc	74.1	116
SM30B	Command Panel Blue	24Vdc	74.1	116
SR01V	Remote Station Semi Flush Silver	18Vdc	15	65
SR01B	Remote Station Semi Flush Blue	18Vdc	15	65
SR02V	Remote Station Surface Silver	18Vdc	15	65
SMALMRLY	Command Panel Alarm Relay	24Vdc	21.4	30.8
SCOMM1	Communicator Board	24Vdc	49.5	49.5
SISOE	Isolator	24Vdc	12	12

RS-485   Max line impedance for the RS-485 as well as 24Vdc power circuits is 16 ohms.

3. NAVIGATING THE COMMAND PANEL TOUCH SCREEN

3.1 : Main screen
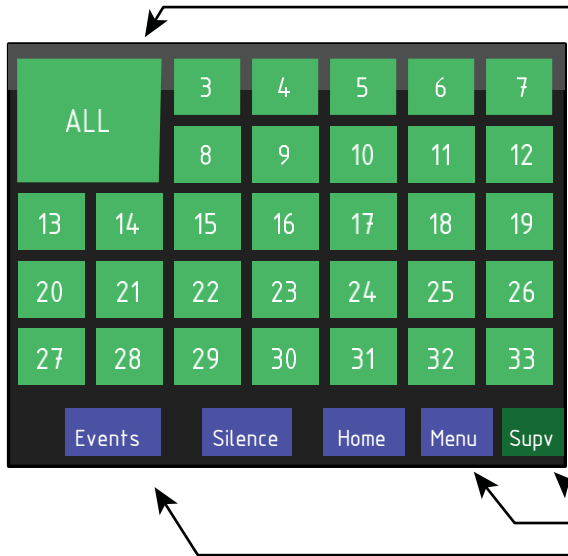
ALL button leads to Figure 3.2.e Communication Screen

Any station number button leads to Figure 3.2.a for that station Number.

Supv indicator. Turns orange on supervisory input.

Menu button leads to Figure 3.5 password screen.

Events button leads to Figure 3.4.a password screen.

3.2 : On-Screen Communication Sequence Figure

3.2.a: - Main Screen with Active 'Call In'

Station Number button leads to Figure 3.2.b Communication Screen

Events button leads to Figure 3.4.a for the next station in order of oldest to latest that has called in.

Figure 3.2.b: - Voice Communication Screen
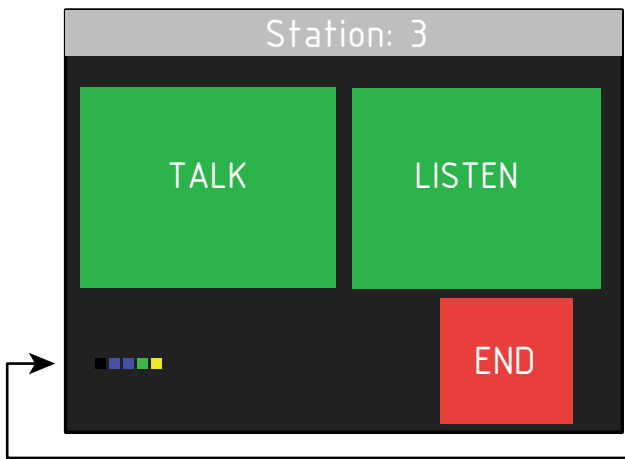
Text Label – retrieved from Remote.

Talk / Listen toggle buttons.

END button returns to Main Screen and ends session to Remote.

VU Meter shows microphone is active and working.

Figure 3.2.c: - Main Screen After Call in Indicating History
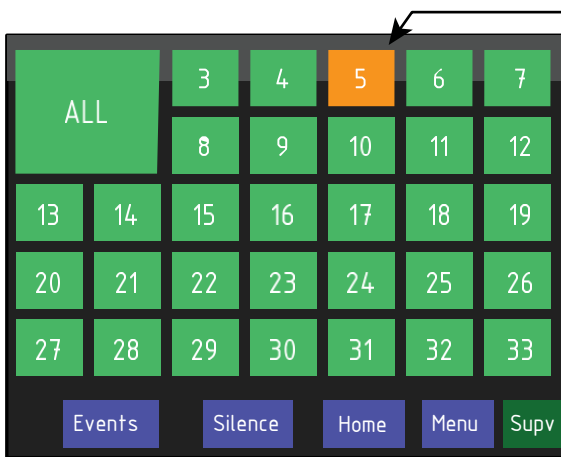
Station Number now highlighted in orange. see screen 3.2.d 'Clear All' to reset. (Must use 'Menu' button)

Figure 3.2.d: - Main Screen 'ALL CALL' Button
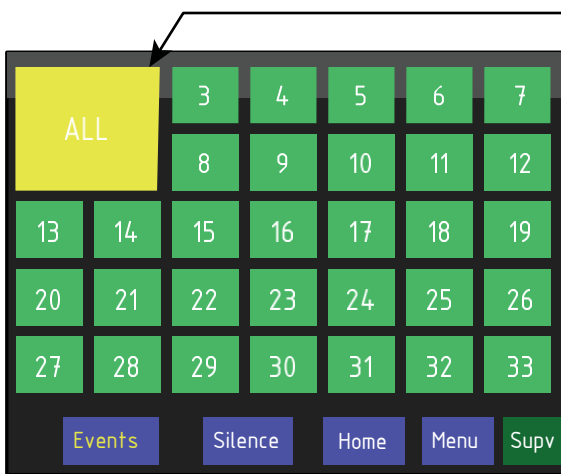
All button leads to Figure 3.2.e all call Communication Screen.

Figure 3.2.e: - All Call Communication Screen
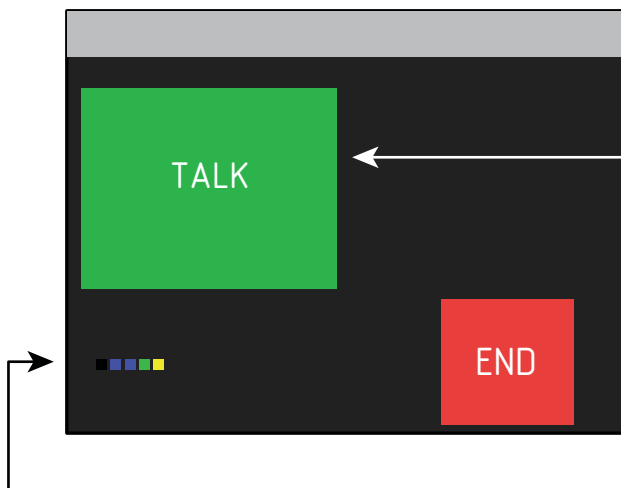
Talk toggle button.

END button returns to Main Screen and ends session to remote.

VU Meter shows microphone is active and working.

Figure 3.3: Main Screen with 'Silence' Active

ALL		3	4	5	6	7
		8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	32	33

Events | Silence | Home | Menu | Supv
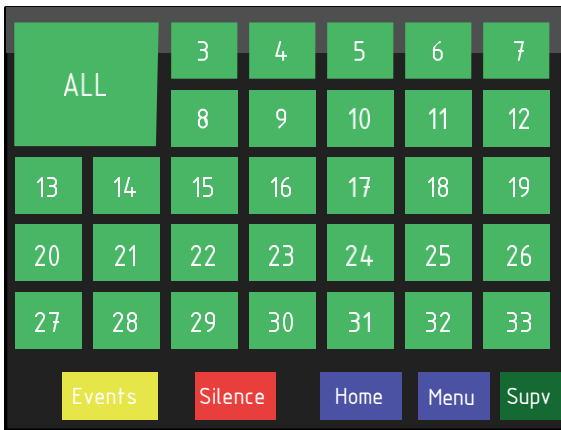
Silence button silences local piezo. Subsequent events will resound.

Figure 3.4: Main Screen with a Trouble Active

ALL		3	4	5	6	7
		8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	32	33

Events | Silence | Home | Menu | Supv
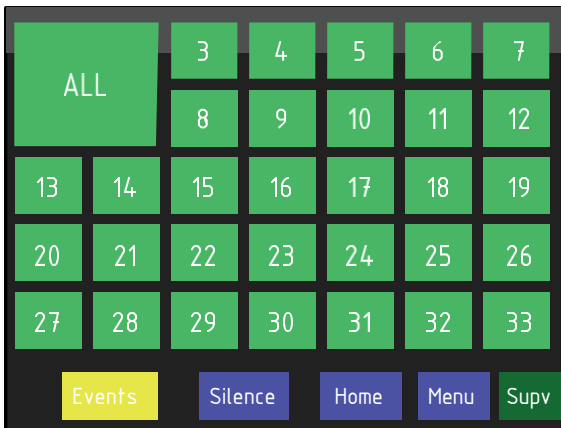
Events button while no active call-in is active leads to the events (trouble) list.

Figure 3.4.a: Password Screen After Main Screen "Events" Button Press
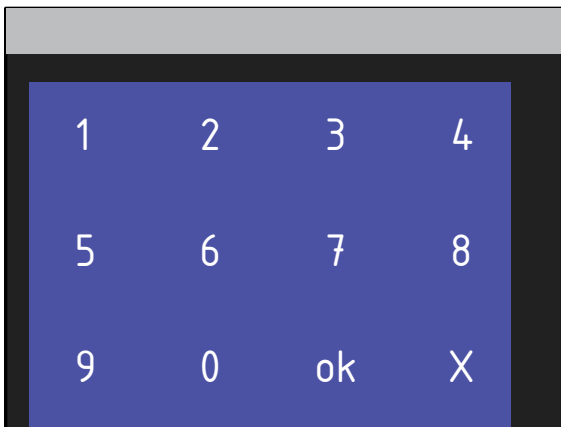
1	2	3	4
5	6	7	8
9	0	ok	X

X cancels entry.
OK proceeds to next screen
if password is correct.
Password is '12347'

Figure 3.4.b: - Trouble Last After Trouble Password Has Been Entered

Events

2d2d4d : TROUBLE
MISSING DEVICE 4
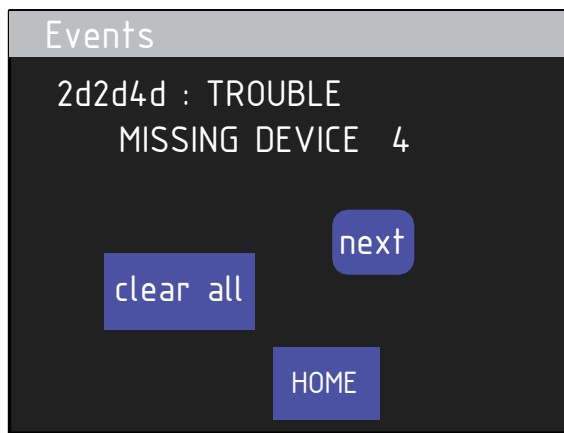
[next]

[clear all]

[HOME]

next button displays next trouble.

clear all clears trouble memory on Command Panel. Any open troubles are reported again within 60 sec.

HOME returns to Main Screen.

Figure 3.5: Password Screen After Main Screen "Menu" Button Press
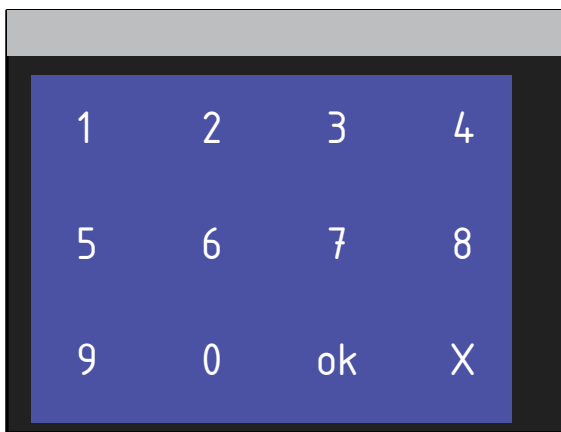
1	2	3	4
5	6	7	8
9	0	ok	X

X cancels entry.
ok proceeds to next screen if password is correct.
Password is '12346'

Figure 3.5.a: Menu screen

[Config] [Reset] [Calibrate]

[TestAudio] [Clear All] [TrueTest]
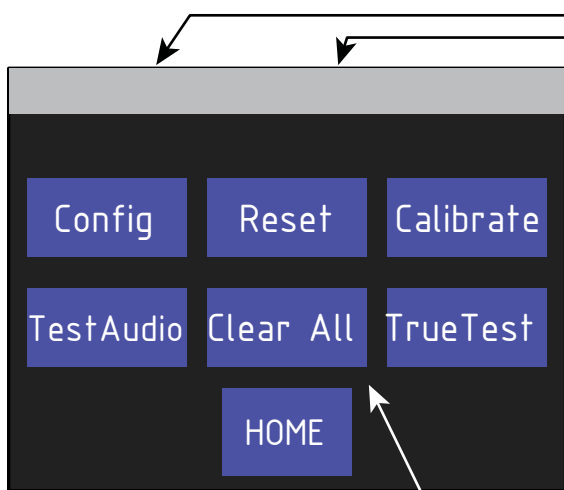
[HOME]

Config leads to Figure 3.5.a.1

Reset resets the Command Panel.

Calibrate leads to Figure 3.5.a.2

Not Used.

Clear All will clear all call-in requests and reset Remotes.

HOME button returns to Main Screen.

Test Audio opens the Talk/Listen to the first Remote Call Station.

Figure 3.5.a.1: Config Screen

```
Config
IP:          192.168.1.90
MASK:        255.255.2550.
GW:          192.168.11.
Srvr1:       192.168.1.13
Srvr2:       0.0.0.0
myID:        SM30-A1
Baudrate 1: 115200  8 n
Baudrate 2: 9600  8 n
Version SW: 2.37

        [ HOME ]
```

← Displays IP Configuration, ID, Server address and Software Revision.

← **HOME** button returns to Main Screen.

Figure 3.5.a.2: Calibrate Screen

```
Calibrate
[yellow square]




        [ HOME ]
```
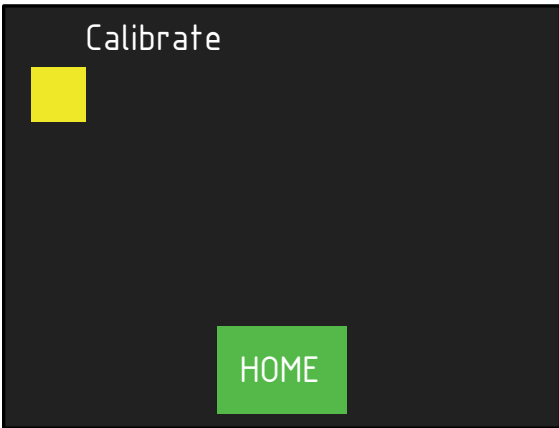
← **Calibrate** Screen places two yellow squares on the screen one after another upon user press. Once complete the user is automatically taken back to the Menu Screen Figure 3.5.a

← **HOME** button returns to Main Screen.

4. OPERATOR INSTRUCTIONS

4.1 : Call is initiated: *End user requesting help presses button at Remote Call Station (RCS).*

- RCS LED 'HELP REQUESTED' illuminates.

- RCS produced an audible beep to indicate that a request has been initiated.

- Command Panel (CP) piezo beeps, 'Events' button turns yellow.

4.2 : Responding to Call at the Command Panel

- Command Panel produces an audible beep

- Command Panel Operator presses the yellow 'EVENTS' button on-screen

- Command Panel's screen changes to the Talk / Listen screen for incoming call.

    o The Command Panel Operator may use the PTT microphone or the on-screen buttons.

- Once the Command Panel Operator is done communicating, the 'END' button is pressed. This resets the Remote Call Station and the Command Panel returns to the main screen.

Note: If several calls are initiated from multiple Remote Call Stations, the Command Panel answers them in the order received.

Instruction label attached inside of Command Panel door:

OPERATION INSTRUCTIONS

When a remote needs assistance, the 'EVENTS' button will turn Yellow, and the piezo will sound.

1: Press the 'Ev ents' button on the screen. → EVENTS

2: Screen changes to the communication mode . → TALK LISTEN END

3: Pick up Microphone. Press PTT button on microphone to talk.

4: Release PTT switch to listen.

5: Press the red 'END' button to end the call. → END

— OR —

6: Press the green 'TALK' button on screen to speak over the remote. → TALK

7: Press the on-screen 'LISTEN' button to listen to the remote. → LISTEN

8: Press the red 'END' button to end the call. → END

Any other stations that need help will ring back , the events button will turn yellow and the piezo will sound.

5. SEQUENCE OF OPERATION

For Messages and their contents, refer to
(Section 1.2, "*Messages*" in the **SHIELD30-Communicator-Configuration-Instructions**) manual.

For more information on Voice Loops, refer to
(Section 2.2a: "*Configuration Files: Description*" in the **SHIELD30-Communicator-Configuration-Instructions**) manual.

5.1: Call Sequence: (Non contact-ID):

1. Call from Remote Call Station is placed.
2. Communicator dials number in Configuration File.
3. Operator picks up call.
4. Communicator in Command Panel starts playing Message 0, followed by Message 5.
5. The minimum required Voice Loops will force the Messages to play a certain number of times before they can be interrupted before proceeding the call.

Note: These messages will repeat if no input is given.

6. Operator listens to message and uses asterisk ' * ' key to talk.
7. Operator communicates with user at Remote using the ' * ' key. Each time the ' * ' is pressed the Operator hears Message 1 if they enable Talk, or Message 2 if they enable Listen.
8. Operator presses' 1 ' key to stop communication. Message 3 is played. Operator presses'1'key again to acknowledge and end the call.

Note: If the' 1 ' key is not used to confirm ending the call, the
system will re-dial the number until the call is acknowledged.

A COPY OF THIS PAGE IS TO BE GIVEN TO THE
CENTRAL STATION OPERATOR

6. MECHANICAL SPECIFICATIONS

6.1 : Command Panel Mechanical Specification

Installation Procedure

- Remove from packaging and open box.
- Open outer door and lift away cover
- Remove inner door screws (figure A) and keep hardware.
- Swing open inner door exposing terminals and remaining mounting holes (figure B).

 • Attach enclosure to wall using appropriate hardware. When mounting on interior walls, use appropriate screw anchors in plaster. When mounting to a concrete surface where moisture is expected, the enclosure must be mounted to appropriate insulating substrate.

Enclosure Height should be determined by specific installation requirements.

Note: Typical standing mounting height for this type of touchscreen interface is between 48" and 56" from floor to centerline of screen.

 • *Ensure power is disconnected before attaching any wiring. Wire terminals per site guidelines.*

⚠ CAUTION - When Making Installation, Route Field Wiring Away From Sharp Projections, Corners And Internal Components.

⚠ Contains Static Sensitive Components.

8-32 screws
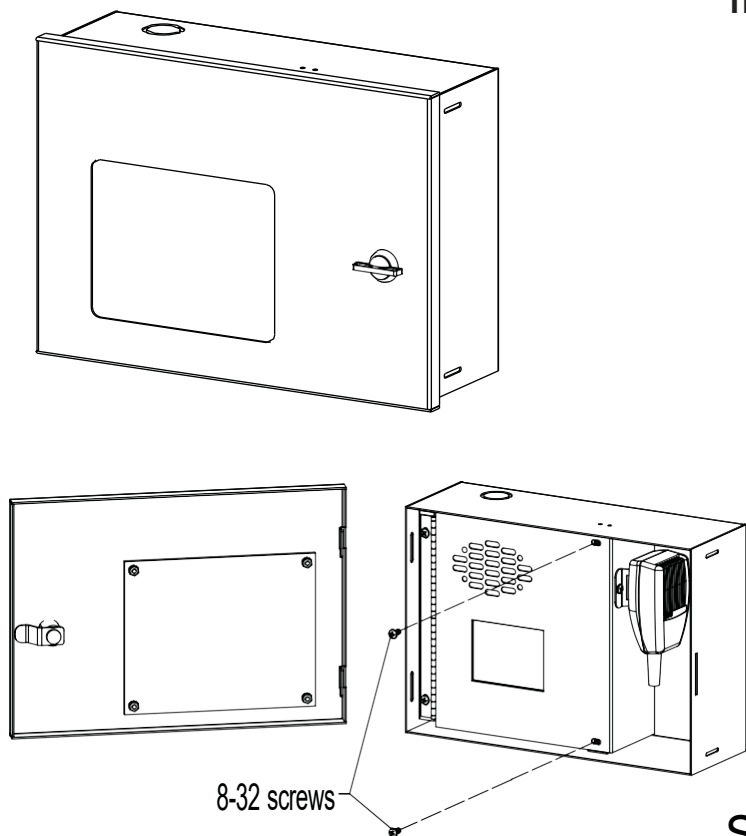
Specifications

24 VDC
Current Draw: 116 mA @ 24vdc.
Environmental: Install location - indoor dry.
Temperature range between 0°C and
   49°C (32°F and 120°F).
Humidity within the range of 10% and 93%
   at 30°C (86°F) non condensing.

11.50

Top View.

11.8

8.50

Front View.

4.0

8.13

Side View.

9.50

4.22

2.28

6.50
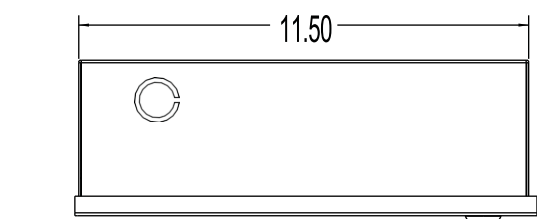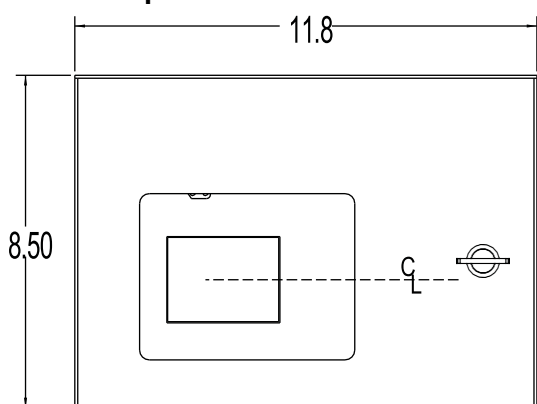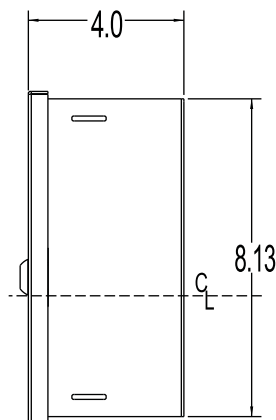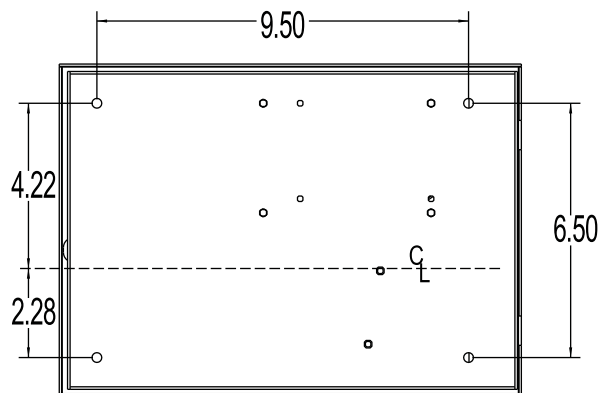
Rear View (mounting holes).

6.2 : Remote Call Station Back Box Mechanical Specification

TOP

7.1"

5.0"

DATA B-
DATA A+
24V-
24V+

6.0"

7.8"
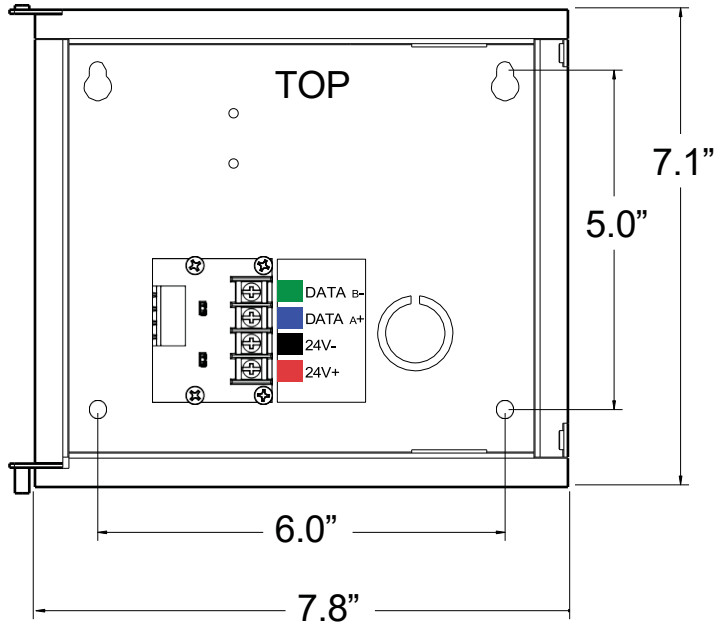
Installation Procedure

• Remove from packaging and open box.
• Place backbox on wall where it is to be mounted and mark the location of holes to mount box to the wall.
• Drill appropriate size holes in wall for appropriate mounting screws being used, (screws not supplied).
• Mount backbox to wall with appropriate hardware (not supplied).

Semi-Flush

2.50

Side

2.50

Top

Surface-Mounted

2.9"

6.15"H x 6.95"W wall cut-out

Surface mount

Side   Flush mount

7.75
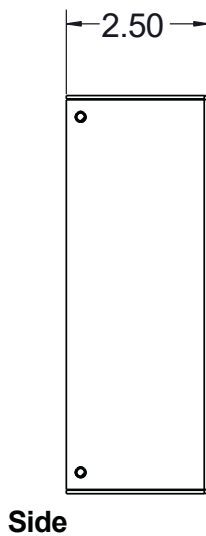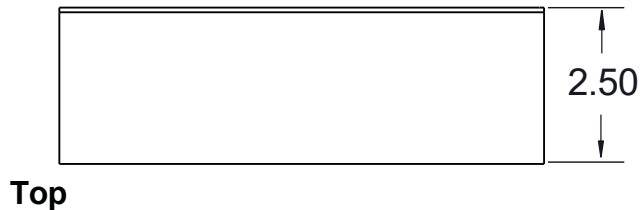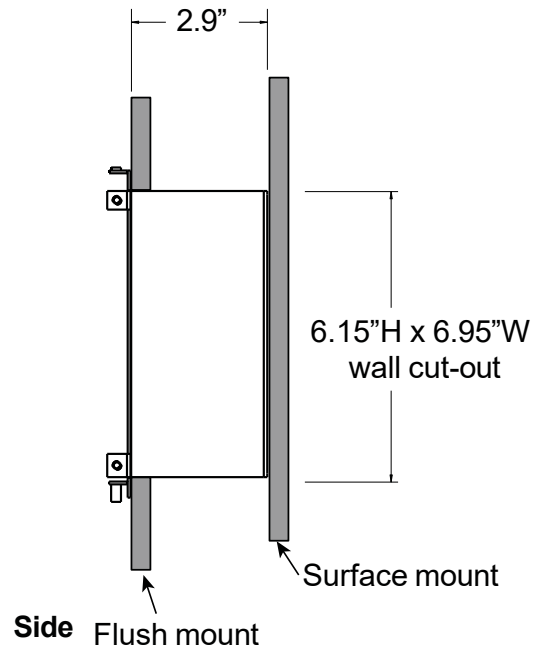
Bottom

6.3 : Remote Call Station Cover Assembly Mechanical Specification

EMERGENCY COMMUNICATION

HELP REQUESTED

REQUEST ACKNOWLEDGED

PUSH FOR HELP

MIC

8.37

7.20

5.60

Ø 3.50

Remote Semi Flush SR01

Installation Procedure

- Remove from packaging and open box.
- Remove screws and bit from screw kit and prepare to assemble.
- Attach cover to box, slide cover hinge hole over Bottom Hinge Post and up, then hook on Top Hinge Post. Attach two of the supplied Torx screws as shown in Figure A.
- Plug in cable assembly to board in back box as shown in Figure B.
- Address Board as shown in (Section 6.4, "Module Address Setting").
- Close door and secure with remaining (2) Torx screws as shown.
- A sign is required at each communication station indicating the location both written and in braille.

Secure Door with Torx screws.

Box with cover closed.

⚠ CAUTION - When Making Installation, Route Field Wiring Away From Sharp Projections, Corners And Internal Components.

⚠ Contains Static Sensitive Components.

Top Hinge Post.

MB0024 MIC/SPK 20-301 45ohm 2W

Bottom Hinge Post.

Plug in Connector

Figure B. Box with cover open.

Remote Surface Mounted SR02

Installation Procedure

- Remove from packaging and open box. Remove screws and bit from screw kit and prepare to assemble.
- Attach cover assembly to back box, slide hinge flanges into slots of back box as shown in Step 1.
- Plug in cable assembly to board in backbox as shown in Step 2.
- Address Board as shown in (Section 6.4, "Module Address Setting").
- Close door and secure with remaining (2) Torx screws as shown.
- A sign is required at each communication station indicating the location both written and in braille.

⚠ CAUTION - When Making Installation, Route Field Wiring Away From Sharp Projections, Corners And Internal Components.

⚠ Contains Static Sensitive Components.

Step 1: Insert hinge flanges into slots in box.

DATA B-
DATA A+
24V-
24V+

MODEL
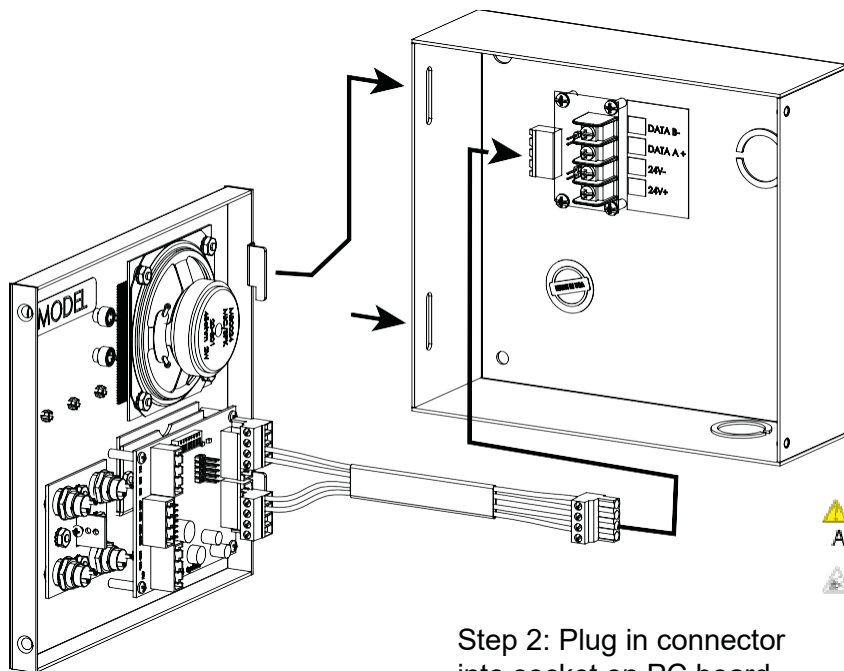
Step 2: Plug in connector into socket on PC board in backbox.

EMERGENCY COMMUNICATION

HELP REQUESTED
REQUEST ACKNOWLEDGED

PUSH FOR HELP
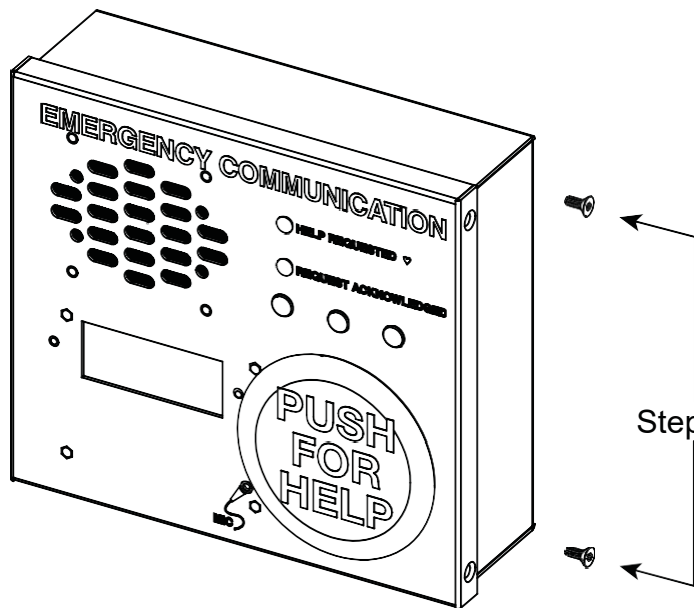
Step 3: Secure door with supplied screws.

6.4 Module Address Setting

As shown on board looking at the back of the door.
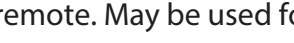
Reset Switch

DEFAULT SHIPPING CONFIGURATION SHOWN.
Module Address = 3

Address Value 1 2 4 8 16 32   EOL

Switch 1 is EOL. **To be switched in on position on last device only.**

Addressing is a binary setting. The lowest number that can be used by ANY Remote is 3 (default address). To increase the address add all of the switch number values.

Examples:

Address 4

4 = 4

Address 10

2 + 8 = 10

Address 17

1 + 16 = 17

Down is ON.

Switch shown as oriented on remote board.

Address:

3
4
5
6
7
8
9
10
11
12
13
14
15

16
17
18
19
20
21
22
23
24
25
26
27
28

29
30
31
32
33

Address used for Trouble relay.

34

Last address. Should NOT be used for any remote. May be used for isolator.

35

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ELECTRONICS

SMALMRLY
Installation Instructions

Installation and wiring should be performed by qualified personnel only - Equipment damage and/or malfunction may result from improper installation. All work of any kind shall be performed to meet the requirements of any and all local, state and federal codes and/or standards set by the authority having jurisdiction.

Installation environment:
INDOOR DRY

Installation Procedure

- Remove from packaging and open box.
- Open door and lift away cover.
- Remove internal plate with module. Before performing any drilling or punching for conduit entry(s), remove 6-32 nuts holding plate with isolator module in place and remove from enclosure (Figure A). Keep hardware.
- Attach enclosure to surface where it is supposed to be installed with appropriate hardware.
- Install plate with module into enclosure using original hardware.
- Wire module as appropriate for the system.
- Set module address according to site layout.
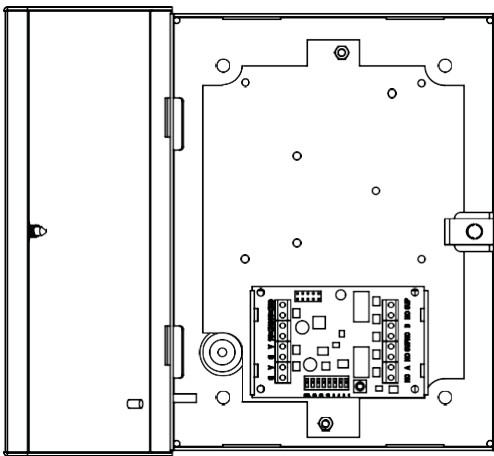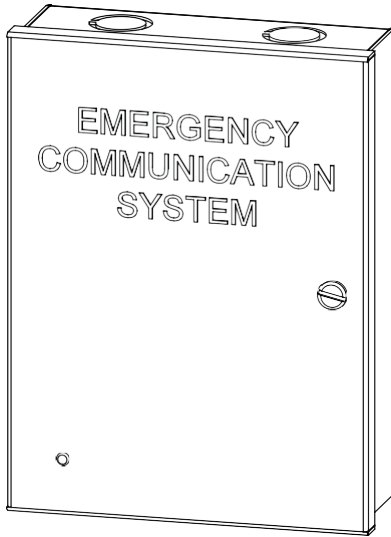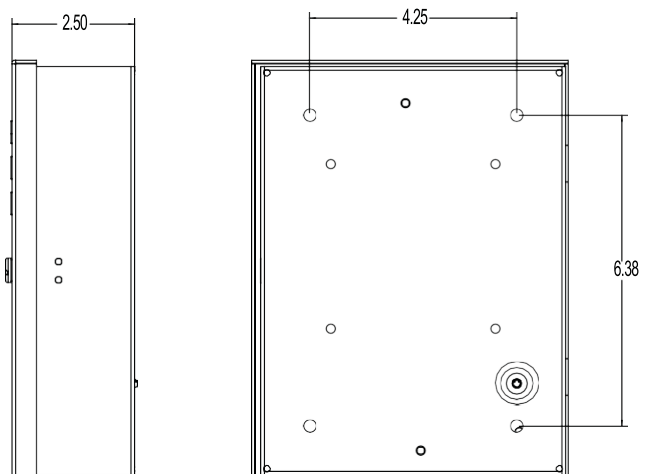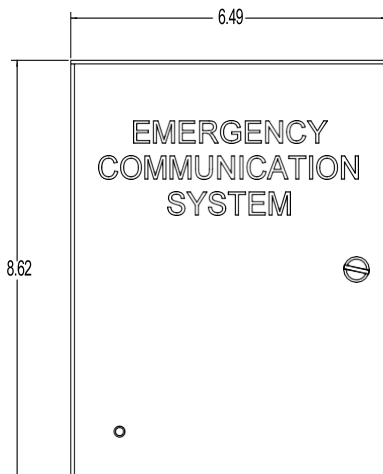- Replace door and secure.

Figure A. Removing plate from box.

EMERGENCY COMMUNICATION SYSTEM

6.49

8.62

2.50

4.25

6.38

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SMALMRLY

CLASS B WIRING TO
MODULE AND COMMUNICATION
STATIONS

Contacts for ALARM Monitoring

DATA B- Terminal 1 and 3

DATA A+ Terminal 2 and 4

24V+ Terminal 5 and 7

24V- Terminal 6 and 8

Contact Ratings:
2 A at 30 VDC;
Max Voltage 38VDC

N.O.

COMMON

N.C.

All Terminals On Relay: 14-22 AWG

Address Switch

⚠ **CAUTION** - When Making Installation, Route Field Wiring Away From Sharp Projections, Corners And Internal Components.

Contains Static Sensitive Components.

Module Address Setting

Address Value   1   2   4   8   16   32   EOL

DEFAULT SHIPPING CONFIGURATION SHOWN.
Module Address = 35

Switch 1 is EOL. To be switched in on position on last device only if necessary.

Addressing is a binary setting. The lowest number that can be used by ANY remote is 3 (default address). To increase the address add all of the switch number values.

Examples:

Address 4

4   =   4

Address 10

2 + 8 = 10

Address 17

1   +   16   =   17

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E L E C T R O N I C S

SISOE
Installation Instructions

Installation and wiring should be performed by qualified personnel only - Equipment damage and/or malfunction may result from improper installation. All work of any kind shall be performed to meet the requirements of any and all local, state and federal codes and/or standards set by the authority having jurisdiction.

Installation environment:
INDOOR DRY

Installation Procedure

- Remove from packaging and open box.
- Open the door and lift away cover.
- Remove internal plate with module. Before performing any drilling or punching for conduit entry(s), remove 6-32 nuts holding plate with isolator module in place and remove from enclosure (Figure A). Keep hardware.
- Attach enclosure to surface where it is supposed to be installed with appropriate hardware.
- Install plate with module into enclosure using original hardware.
- Wire module as appropriate for the system.
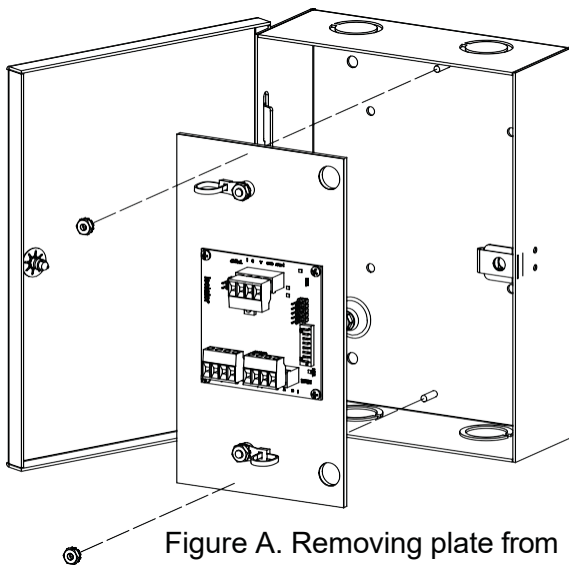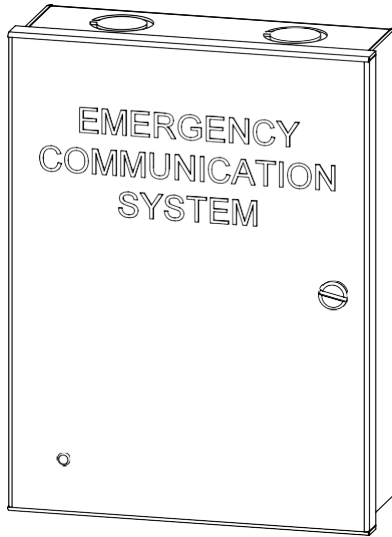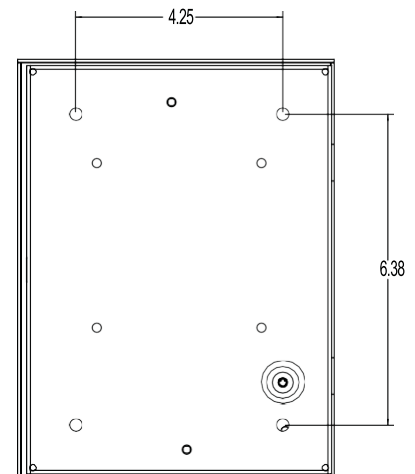- Set module address according to site layout.
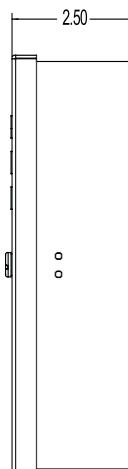- Replace door and secure.

Figure A. Removing plate from box.

Isolator Detail

Communication LED:
Blinking 1sec = Normal Comm.
Solid = NO Comm.

Address Switch

To Next Floor or Device

Power LED

T-Tap
To Floor Devices Or
Adjacent Riser

Jumpers installed on
Pins 1-2 and 3-4

From Command Panel
or Previous Device
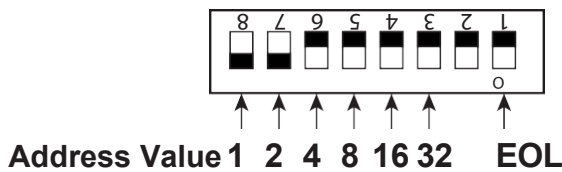
⚠️ CAUTION - When Making Installation, Route Field Wiring
Away From Sharp Projections, Corners And Internal Components.

⚠️ Contains Static Sensitive Components.

Module Address Setting

DEFAULT SHIPPING CONFIGURATION SHOWN.
Module Address = 3

Switch 1 is EOL. To be switched in on
position on last device only if necessary.

Address Value 1 2 4 8 16 32 EOL

Addressing is a binary setting. The lowest number that can be used by ANY remote is 3 (default address).
To increase the address add all of the switch number values.

Examples:

Address 4

4 = 4

Address 10

2 + 8 = 10
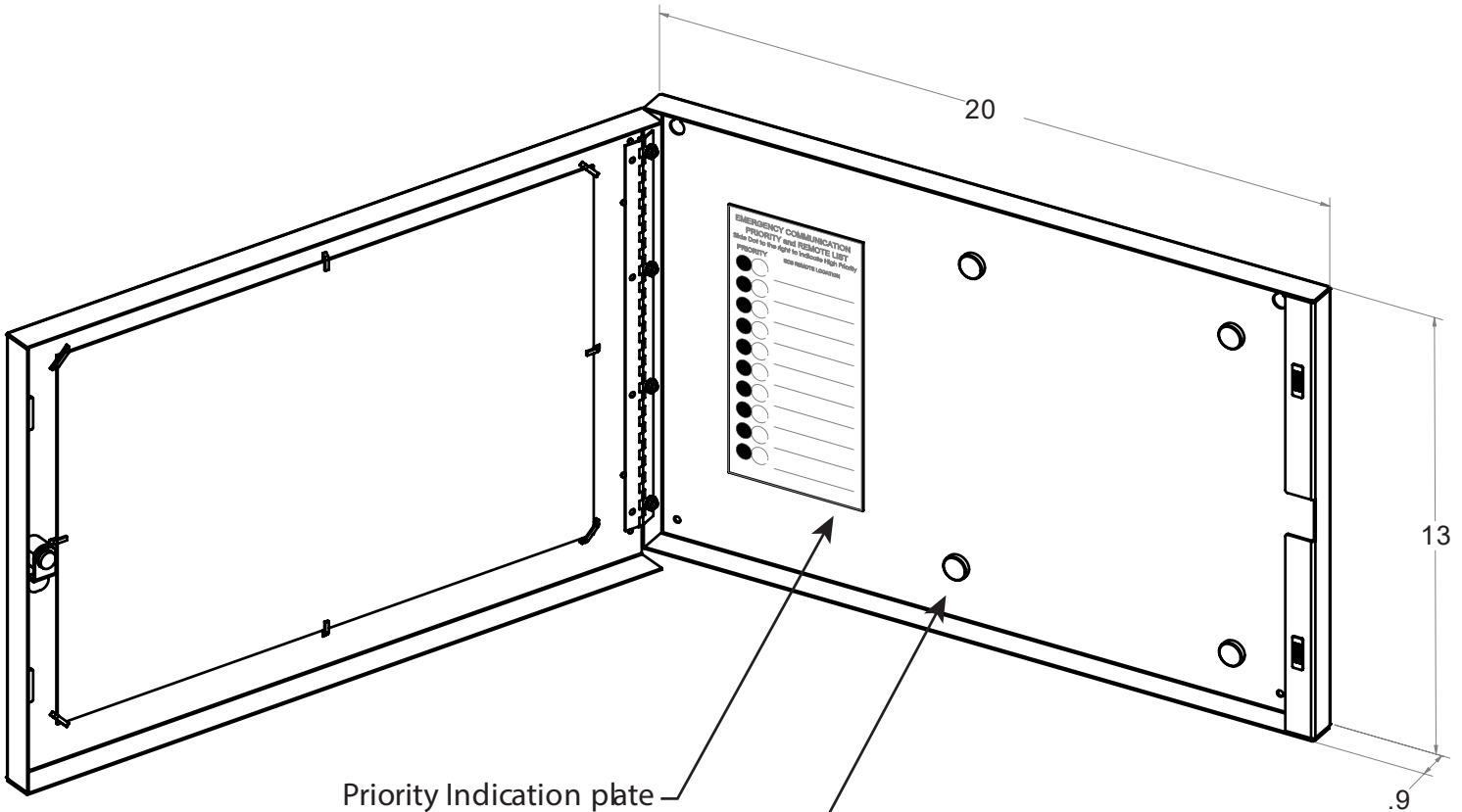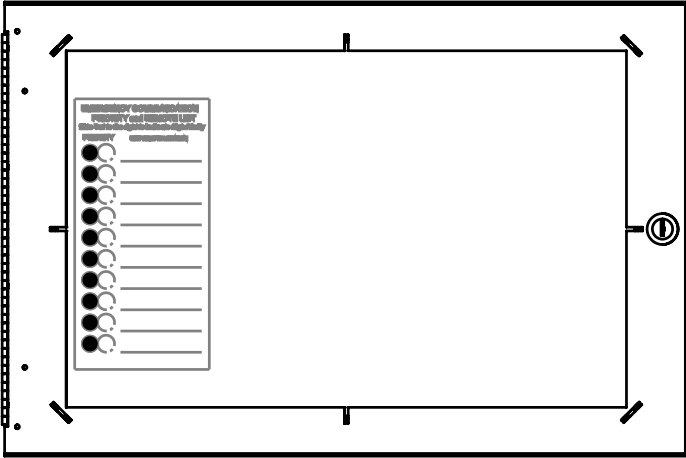
Address 17

1 + 16 = 17

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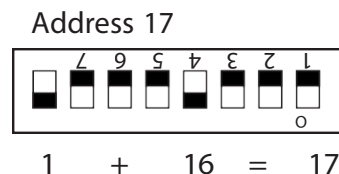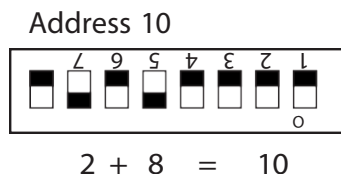
DEVICE PRIORITY ENCLOSURE

Installation Instructions

Installation environment:
INDOOR DRY

Installation Procedure
- Remove from packaging and open box.
- Un-lock and ppen door with included keys.
- Use 4 #8 screws to install.

20

13

.9

Priority Indication plate

Magnets to hold additional
documentation and information

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E L E C T R O N I C S

ALARM PRIORITY LIST

EMERGENCY COMMUNICATION PRIORITY and REMOTE LIST

Slide Dot to the right to indicate **High Priority**

PRIORITY   ECS REMOTE LOCATION:

P/N: SMLIST10

- Mounts inside of Graphic Map Enclosure P/N: SSU00123
- List all remotes in emergency communication system in space provided.
- magnetic indicators should be organized as shown in a normal condition.
- In an emergency, locations with a high priority may be indicated.
- Label all non used appropriately and remove magnetic indicator.
- Add as many plates as necessary for system size.

7. TESTING

7.1 : Service

The SHIELD Emergency Communication System allows direct communication between the end user and the Call Center or local Command Panel operator.

The Command Panel Operator can communicate with the end user at the Remote Call Station by using either the PTT microphone or the on-screen Talk / Listen buttons.

The amount of time it takes for the Remote Call Station to call the Call Center can be changed via the Configuration Files. Refer to the **SHIELD30-Communicator-Configuration-Instructions** manual, (Section 2.2: '*Configuration Files*') for details.

Recorded voice messages contain vital information such as the location of the site, the location of the Remote Call Station itself, and, if answering from a phone, instructions on how to operate the phone. Messages containing site information will be provided by you during the installation process, see (**SHIELD30-Communicator-Configuration-Instructions**) for further information on recording messages. Consult with the Call Center and the Authority Having Jurisdiction to determine the content of the messages.

When ending the call, the Command Panel Operator will press the 'END' button on-screen. The Call Center Operator will press ' 1 ' on the keypad twice to acknowledge and end the call.

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◈ (800).486.1723