

SECTION 2

COMMUNICATIONS



SECURE-TECH.com

DETENTION ELECTRONIC SYSTEMS

ETECH CONTROLS CORPORATION - MANUFACTURER
4051 ALVIS COURT #3, ROCKLIN, CALIFORNIA, USA 95677
TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

LOC-COM SERIES

INTERCOM AND PAGING ASSEMBLIES OR KITS

FEATURES:

- **NEC 725 COMPLIANT** - FACTORY TESTED
- HC-0826 INTERCOM AMPLIFIER
- HC-0644 8 STATION INTERCOM SELECTORS
- ALL PLUG CONNECTION (EXCEPT POWER)
- OPTO-ISOLATED (7500V) INPUTS
- FUSED 12VDC POWER SUPPLY
- NEMA RATED ENCLOSURE
- CONTROL PANEL KIT
- ECONOMICAL UNASSEMBLED KITS AVAILABLE *
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

Factory assembled and tested intercom / paging control electronics packages are **NEC (National Electrical Code) Compliant**, and are designed for use with a hardwired type custom control panel. Separate control panel(s) may have either momentary or maintained contact switches. A control panel kit is provided that includes a 2.5" diameter speaker, electret microphone and volume control.

The HC-0644 8 Station Intercom Selectors are input and output programmable and may be configured to provide special functionality. See the HC-0644 catalog sheet for more information.

The assemblies are available in many different sizes, ranging from 8 to 128 audio switching channels, and with either Molex or Phoenix type field wiring plug connectors. An HC-0826 Intercom Amplifier is provided to interface with a separate custom control panel and an external power amplifier. A separate audio power amplifier, not included, is recommended for selectable audio loads that exceed eight watts. See the HC-0826 Intercom Amplifier catalog sheet for more information.

INSTALLATION:

Wall mount the Nema rated enclosure and conduit connect one fifteen amp circuit of 120vac 60hz power. Connect the separate remote hardwired control panel with 25 pair telephone type cable(s), one twisted / shielded pair(s) audio speaker / microphone cable, and two conductors for 12vdc power and ground.

The 25 pair telephone type plug connections at the remote hardwired control panel **must match signal wirelists** that are provided by Secure-Tech. The remote hardwired control panel is factory tested and guaranteed to function properly **only when manufactured by Secure-Tech.**

Field audio circuit cables are to be connected directly to the HC-0644 8 Station Intercom Selectors on Molex (-M) insertion tool type or Phoenix type (-P) compression screw terminal plug connectors provided.

OPTIONS:

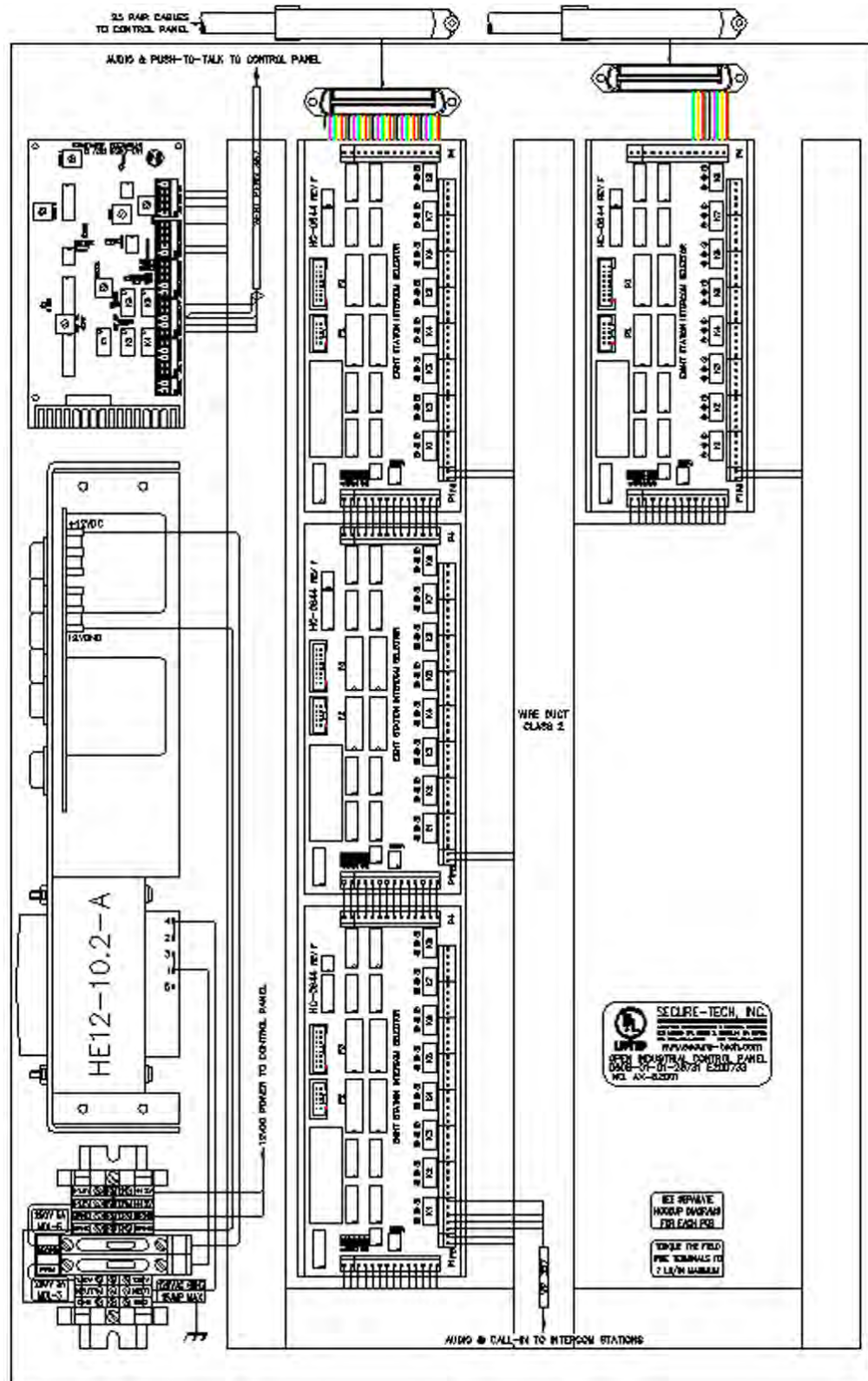
1. HC-0654 Sound Alarm functions may be added if Molex (-M) insertion tool type connectors are selected for field wiring on the HC-0644 8 Station Intercom Selectors.
2. Call Forwarding, Dual Call, Scan, or custom software functionality can be provided on the HC-0644 8 Station Intercom Selectors.
3. Additional audio busses to obtain multiple audio functions on each channel, i.e. intercom / music background.

* Kits do not include either a power supply or an enclosure.

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LOC-COM SERIES INTERCOM / PAGING ASSEMBLIES OR KITS

HOOK-UP DIAGRAM





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MODEL HC-0644

8 STATION INTERCOM SELECTOR

FEATURES:

- 8 OPTO-ISOLATED (7500V) INPUTS
- RS-485 COMMUNICATION AT 19,200 BAUD
- 24 STATUS LEDs
- 8 CALL-IN DISABLE / CCTV CALL-UP I/O
- SOUND ALARM DAUGHTERBOARD OPTION
- LAMP TEST
- ALL PLUG CONNECTION
- COMPRESSION SCREW PLUG OPTION
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

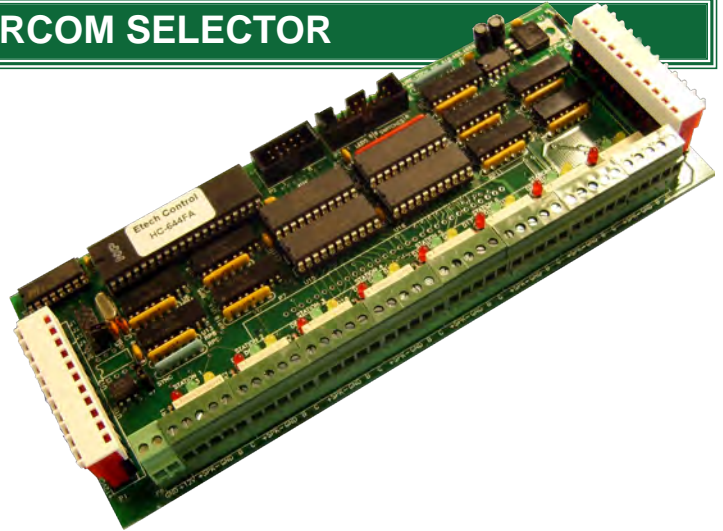
FUNCTIONAL DESCRIPTION:

The HC-0644 provides the functionality for eight audio channels. A call-in flashes the associated LED, and activates an audio tone at control panel. When selected, the LED becomes steady and the tone is canceled. On the same I/O points, call-In signals can be separately disabled or a CCTV picture can be selected to a call-up monitor. LEDs on the module, busy (GREEN), Call-in (momentary YELLOW), and Selected (RED) are provided for each intercom station. Either momentary or maintained control panel selector switches can be used. Multiple HC-0644's are buss connected to accommodate any number of intercom stations, with flashing synchronized. Lamp testing is provided. The BUSY I/O buss allows multiple shared masters (the first master selection is served) or master / slave operation (master overrides slave units). The BUSY function can also be set to call-up CCTV cameras, or as a "shared call-in". An HC-0654 Sound Alarm daughterboard may be added to the HC-0644-M. An RS-485 channel is provided for data communication with a PLC or computer. Programmable, this products' I/O can be configured to interface with an HC-0819 8-Door Control / Monitor, for both intercom and door functionality at an eight cell pod.

INPUTS / OUTPUTS:

Eight call-in inputs and eight relay outputs are provided. Relay DPDT contacts are UL/CSA rated for 125 VAC @ 0.5 amp and 30 VDC @ 2 amps.

Field wiring terminates on five pin Molex or Phoenix type quick disconnect plugs. Phoenix type compression screw connection plugs are optional, when the HC-0654 Sound Alarm daughterboard is not used.



The I/O to the associated control panel is connected via 10-pin and 16-pin male headers. The mating female ribbon type plugs are provided. These same I/O points may also be used to interface with other input and output modules.

An RS-485 communication channel is also provided.

SIZE:

3.25" W x 7.75" L x 0.93" D
82.6mm W x 196.9mm L x 23.5mm D

POWER:

12 - 14 VDC, 500ma

MODELS:

HC-0644-M	Molex
HC-0644-P	Phoenix (no sound alarm)

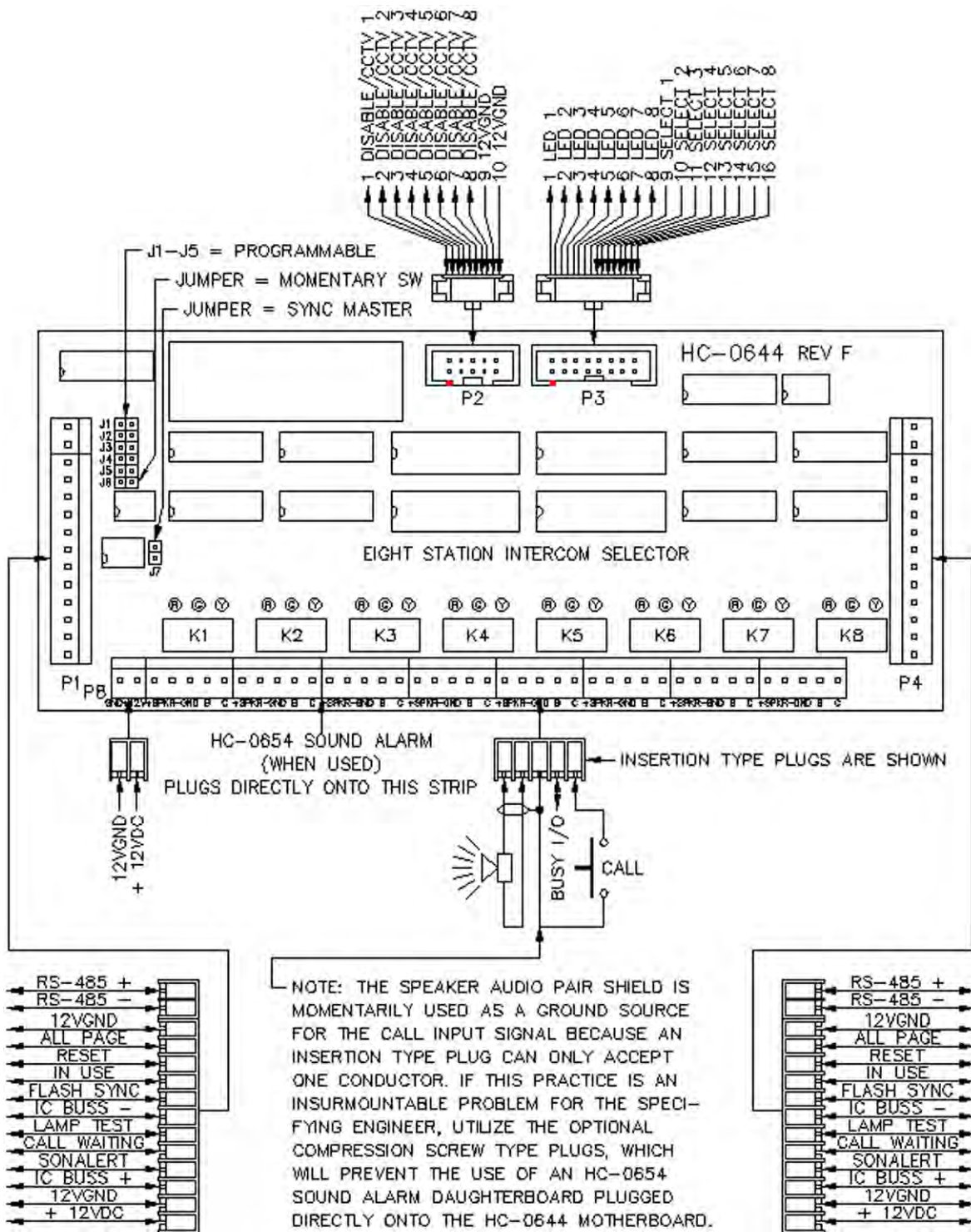
NOTE:

This products' I/O is programmable and is available with other software. Some other existing software packages provide: **Dual Call**, where each intercom station has two separate call-ins and LED outputs; **Scan**, where intercom stations are sequentially scanned for a set period of monitoring while in scan mode; and **Stacker**, where all call-in and select functions are stacked in a que for sequential annunciation and selection at a single LED and momentary switch on a remote control panel, as in a nighttime transfer of functions to a central control room. Call for more information on existing software or to obtain custom software functions.

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MODEL HC-0644 8 STATION INTERCOM SELECTOR

HOOK-UP DIAGRAM





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MODEL HC-0845

PLC 16 STATION INTERCOM SELECTOR

FEATURES:

- 8 OR 16 PLC CONTROLLED STATIONS
- 16 SELECT STATUS RED LEDS
- 16 CALL-IN STATUS YELLOW LEDS
- 1 OR 2 AUDIO BUSSES
- SHARED, SINGLE OR DUAL MASTERS
- 12 OR 24 VDC OPERATION
- CCTV CALL-UP UP ON CALL-IN OR SELECT
- IN-USE BUSS
- ALL PLUG CONNECTIONS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

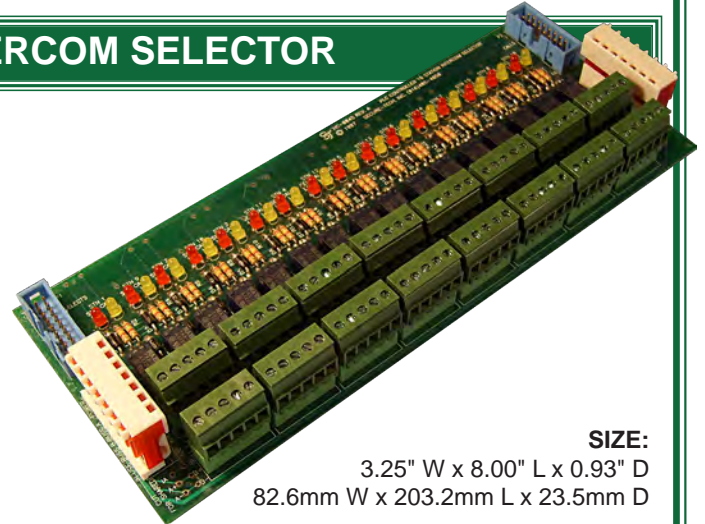
The HC-0845 provides the inputs and outputs for up sixteen intercom stations or paging zones, for operation by a programmable logic controller. It interfaces with all major manufacturers' PLCs (sinking modules) and the SECURE-TECH HC-0682 System Controller.

The ability to configure this product to be used in many different applications makes it very versatile. A single master can control sixteen audio channels. Two separate masters can share eight channels. Or, two masters can separately control eight channels each. Both 12 and 24 VDC operating voltages are offered. Molex type insertion tool terminating plugs are more cost effective and Phoenix type compression screw terminal plugs accept a range of conductor sizes. Both are offered.

Each audio channel provides a red Select status LED and a yellow Call-in status LED. An In-use buss is provided. A PLC operated Select point, on the field wiring terminal plug, can be used to interface with a CCTV switcher to provide a picture call-up upon Select. This same point can also be configured to add the momentary Call-in signal as well for CCTV call-up upon Call-in. Add (-C) to the model number for this function.

INPUTS / OUTPUTS:

Sixteen Call-in inputs and sixteen relay outputs are provided. Relay DPDT contacts are UL/CSA rated for 125 VAC @ 0.5 amp and 30 VDC @ 2 amps. The control I/O is connected via two 16-pin male ribbon headers. The mating female ribbon plugs are provided.



SIZE:

3.25" W x 8.00" L x 0.93" D
82.6mm W x 203.2mm L x 23.5mm D

POWER:

12 VDC or 24 VDC, 500ma

MODELS:

- HC-0845-8-SH-12-M
8 stations, shared masters, 12 VDC, Molex
- HC-0845-8-SH-24-M
8 stations, shared masters, 24 VDC, Molex
- HC-0845-8-SH-12-P
8 stations, shared masters, 12 VDC, Phoenix
- HC-0845-8-SH-24-P
8 stations, shared masters, 24 VDC, Phoenix
- HC-0845-16-SI-12-M
16 stations, single master, 12 VDC, Molex
- HC-0845-16-SI-24-M
16 stations, single master, 24 VDC, Molex
- HC-0845-16-SI-12-P
16 stations, single master, 12 VDC, Phoenix
- HC-0845-16-SI-24-P
16 stations, single master, 24 VDC, Phoenix
- HC-0845-16-DU-12-M
16 stations, dual 8 station masters, 12 VDC, Molex
- HC-0845-16-DU-24-M
16 stations, dual 8 station masters, 24 VDC, Molex
- HC-0845-16-DU-12-P
16 stations, dual 8 station masters, 12 VDC, Phoenix
- HC-0845-16-DU-24-P
16 stations, dual 8 station masters, 24 VDC, Phoenix

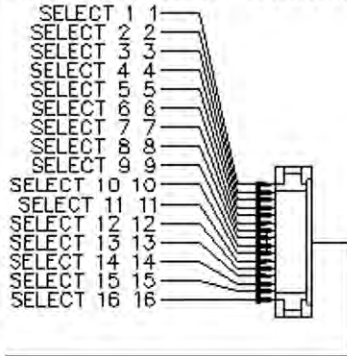
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MODEL

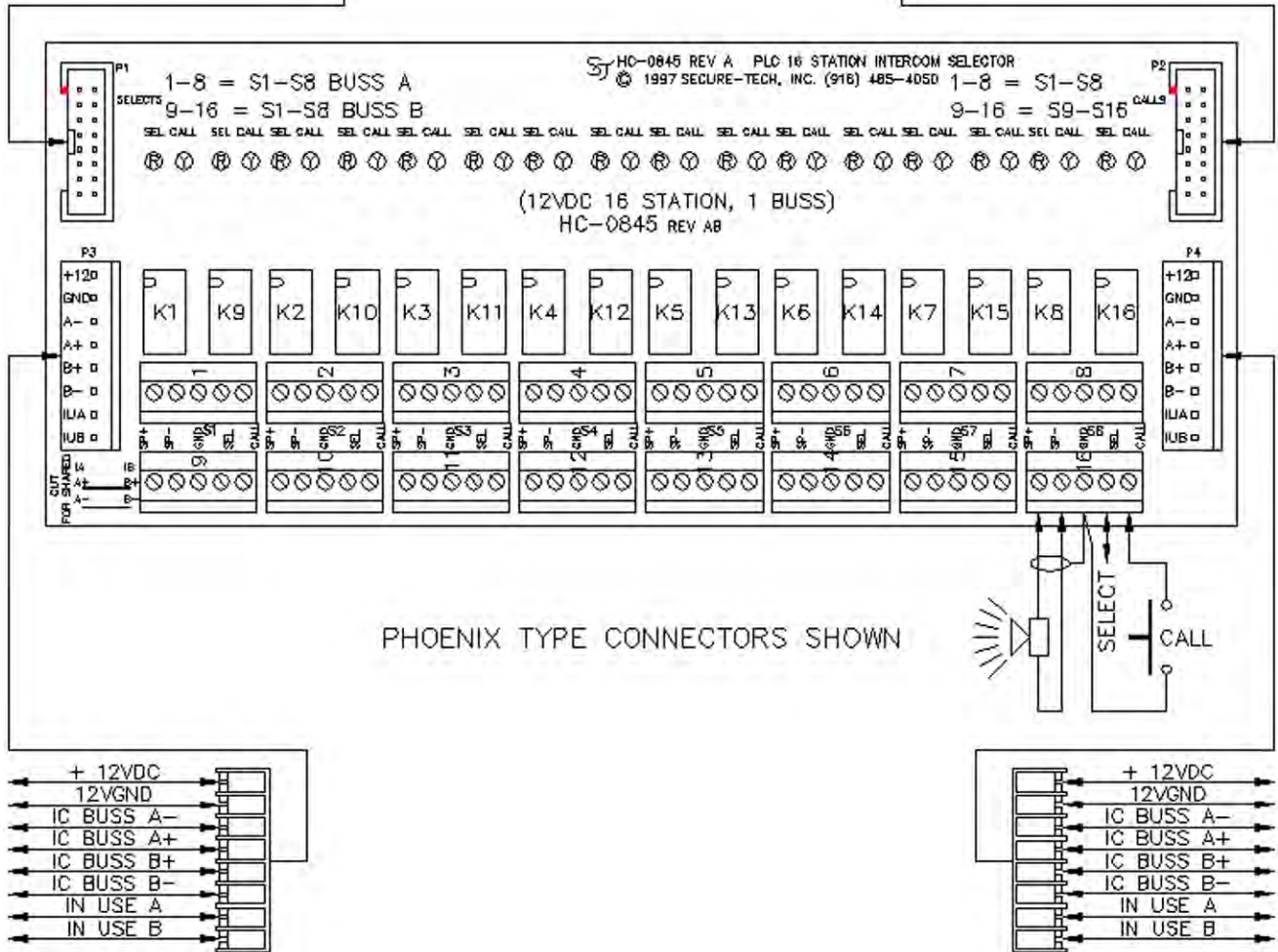
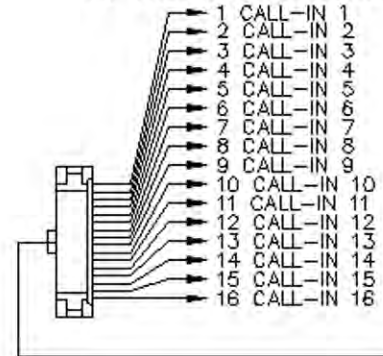
HC-0845 PLC 16 STATION INTERCOM SELECTOR

HOOK-UP DIAGRAM ALL CONTROL FUNCTIONS ARE SINKING

FROM OUTPUT MODULE
FROM HC-0715 MODULE



TO INPUT MODULE
TO HC-0714 MODULE





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MODEL HC-0846

PLC 8 STATION INTERCOM SELECTOR

FEATURES:

- 8 PLC CONTROLLED STATIONS
- 16 SELECT STATUS RED LEDs
- 16 CALL-IN STATUS YELLOW LEDs
- 2 AUDIO BUSSES
- ACCEPTS HC-0654 SOUND ALARM
- SINGLE OR DUAL MASTERS
- 12 OR 24 VDC OPERATION
- 2 IN-USE BUSSES
- ALL PLUG CONNECTIONS
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

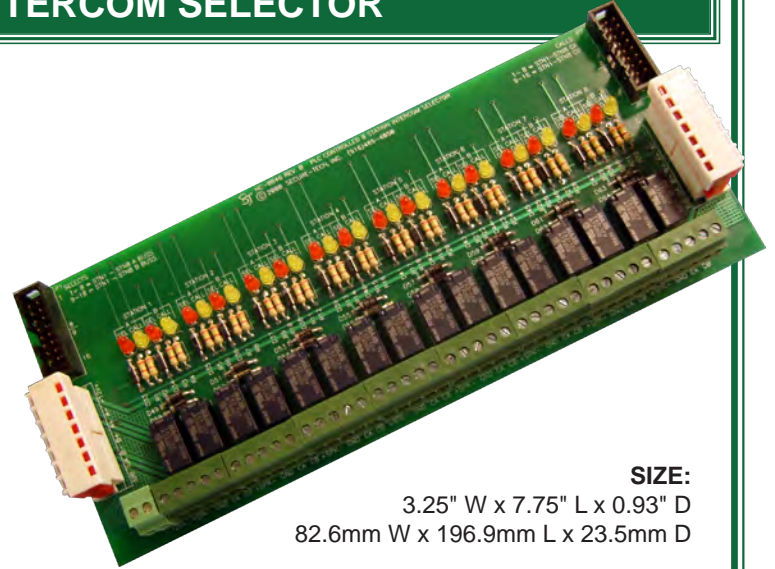
The HC-0846 provides the inputs and outputs for up eight intercom stations or paging zones, for operation by a programmable logic controller, with access to two different audio busses. It interfaces with all major manufacturers' PLCs and the HC-0682 System Controller.

The ability to configure this product to be used in many different applications makes it very versatile. A single master can control eight audio channels, and select them individually to two different audio busses, i.e. intercom or music background. Or, two separate masters can share eight channels. Molex type insertion tool terminating plugs are more cost effective and Phoenix type compression screw terminal plugs accept a range of conductor sizes. The HC-0654 Sound Alarm daughterboard can be plugged directly onto the HC-0846 when the field connectors are Molex type.

Each audio channel provides a red Select status LED and a yellow Call-in status LED. Two In-use busses are provided. Call-in "B" is the normal field input point. Use call-in "A" when the HC-0654 Sound Alarm daughterboard is used. The Sound Alarm uses the call-in "B" input point. Or, two separate call-in buttons may be used per audio channel.

INPUTS / OUTPUTS:

Sixteen Call-in inputs and sixteen relay outputs are provided. Relay DPDT contacts are UL/CSA rated for 125 VAC @ 0.5 amp and 30 VDC @ 2 amps. The control I/O is connected via two 16-pin male ribbon headers. The mating female ribbon plugs are provided.



SIZE:

3.25" W x 7.75" L x 0.93" D
82.6mm W x 196.9mm L x 23.5mm D

POWER:

12 VDC or 24 VDC, 500ma

MODELS:

HC-0846-12-M	12 VDC, Molex (motherboard)
HC-0846-24-M	24 VDC, Molex (motherboard)
HC-0846-12-P	12 VDC, Phoenix (no sound alarm)
HC-0846-24-P	24 VDC, Phoenix (no sound alarm)

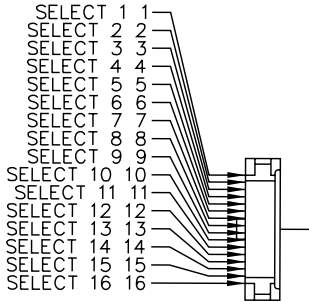
Note: There are other variations of this product available, with 90° angle Molex connectors, that plug onto an HC-0723 Intercom Exchange motherboard (not in catalog) to accommodate special applications like separate day and night sound alarms; additional masters; and duress alarm auto-selection to listen mode with CCTV picture call-up, all with high density space savings. Call the factory for special applications assistance.

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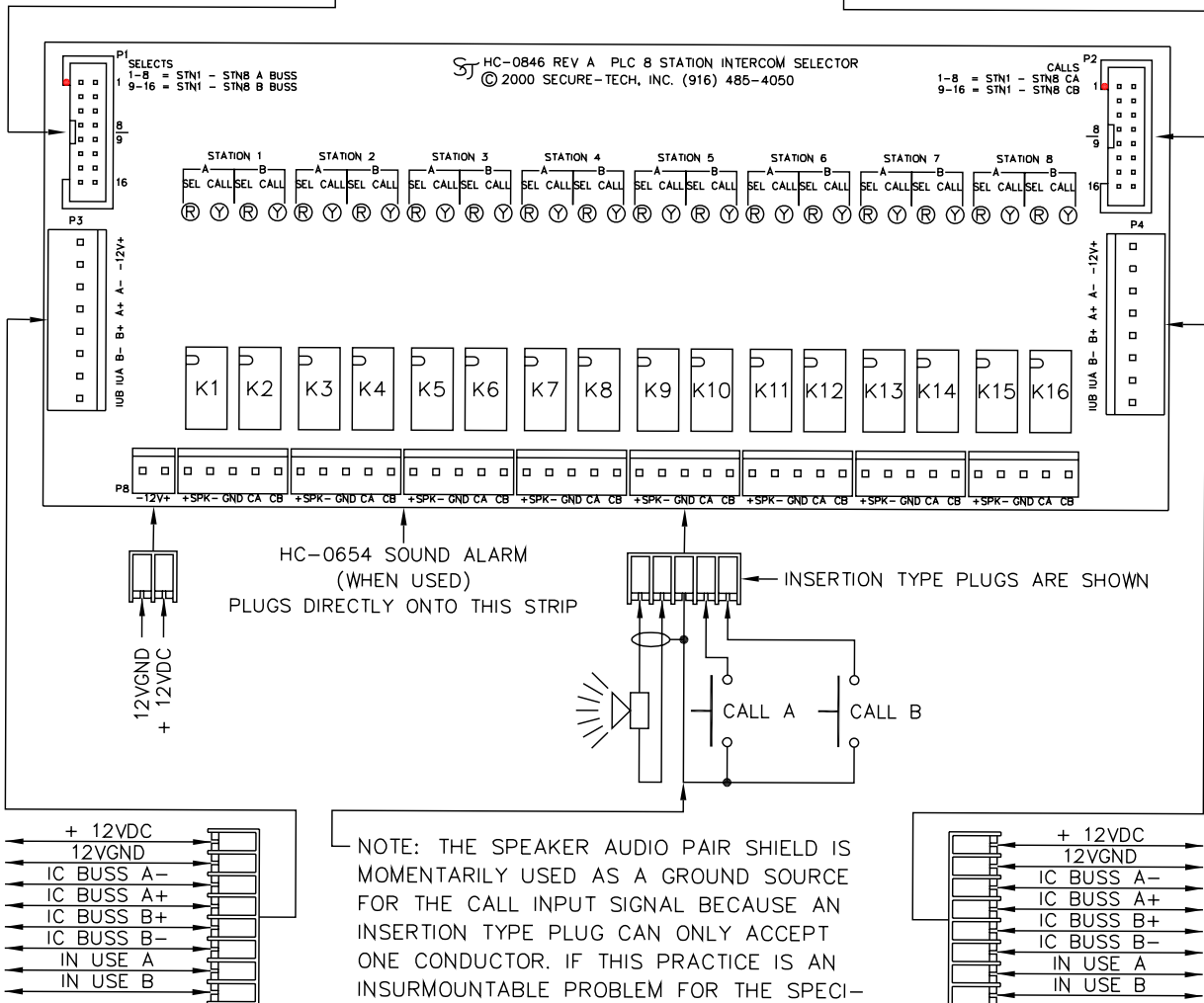
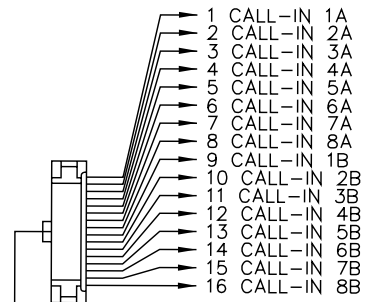
MODEL HC-0846 PLC 8 STATION INTERCOM SELECTOR

HOOK-UP DIAGRAM ALL CONTROL FUNCTIONS ARE SINKING

FROM OUTPUT MODULE



TO INPUT MODULE



NOTE: THE SPEAKER AUDIO PAIR SHIELD IS MOMENTARILY USED AS A GROUND SOURCE FOR THE CALL INPUT SIGNAL BECAUSE AN INSERTION TYPE PLUG CAN ONLY ACCEPT ONE CONDUCTOR. IF THIS PRACTICE IS AN INSURMOUNTABLE PROBLEM FOR THE SPECIFYING ENGINEER, UTILIZE THE OPTIONAL COMPRESSION SCREW TYPE PLUGS, WHICH WILL PREVENT THE USE OF AN HC-0654 SOUND ALARM DAUGHTERBOARD PLUGGED DIRECTLY ONTO THE HC-0846 MOTHERBOARD.



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**MODEL
HC-0826**

INTERCOM AMPLIFIER

FEATURES:

- 14 WATTS RMS OUTPUT
- ULTRA LOW NOISE LEVEL
- "SOAR" PROTECT TECHNOLOGY
- THERMAL AND OVER VOLTAGE PROTECTION WITH AUTO RESET
- 4 STATUS LEDS
- ADJUSTABLE NOTCH FILTERS
- ALL PLUG CONNECTION
- 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The HC-0826 is a high quality, reliable, long life intercom amplifier, for use with the HC-0644, HC-0845, and HC-0846 intercom selectors. The amplifier is suitable for the high frequency use typically found in detention facility applications.

Switching between Talk, Listen and Mute is virtually noise free. Two adjustable notch filters allow a wide range of speakers to be used by adjusting out the inherent feedback resonances. LEDs are provided to indicate Push-to-talk, In-use, AGC and Power.

For selected loads requiring additional output power, an external amplifier connection is provided. In the external amplifier mode, the unit acts as a controller and the external amplifier serves the load.

The XSEL input may connected to a Nighttime Transfer switch to extend a Central Control room masters' ICBUSS to include a remote housing areas' master ICBUSS as well during nighttime hours. The XSEL input enables / disables the EXTAMP input points. Connect the remote masters' EXTAMP input points to the central masters' ICBUSS by using an HC-0644 audio channel relay, also selected by the Nighttime Transfer switch.

Do not use with external amplifiers that are sized above sixty watts nominal. An external amplifier is recommended for selected loads over eight watts.



The OWNLINE input points connect to the CSPKR output points **whenever the HC-0826 Intercom Amplifier is not INUSE**. OWNLINE may be used as a substation of a remote intercom master to provide master to master communication. Multiple remote masters may be connected.

Safe Operating Area Region, thermal and over-voltage protection circuits are provided. Talk volume level, low frequency roll-off and overall gain adjustments are provided. Audio power output is 14 watts RMS at 2 ohms. Audio range is 400 hz - 10 khz \pm 3 db. Signal to noise ratio is 75 db minimum.

When in standby, the HC-0826 effectively "shuts" down reducing the possibility of noise or hum. If a Secure-Tech station selector module is not used a sinking output must be applied to the INUSE terminal each time a station is selected.

INPUTS / OUTPUTS:

The inputs and outputs are connected to Phoenix type compression screw terminal plugs sized for 28 to 16 AWG stranded conductors.

SIZE:

3.25" W x 6.00" L x 1.60" D
82.6mm W x 152.4mm L x 41.0mm D

POWER:

12 - 14 VDC, 200ma idle, 3 amps max

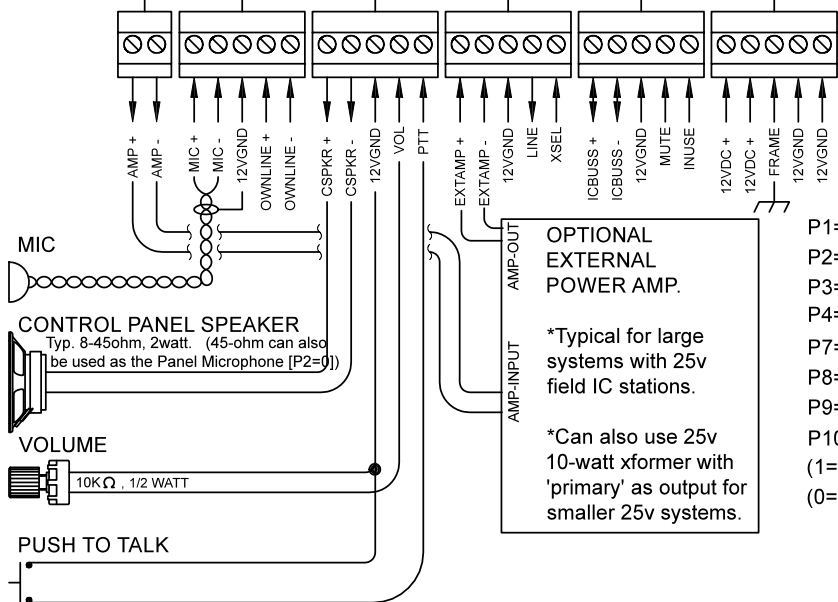
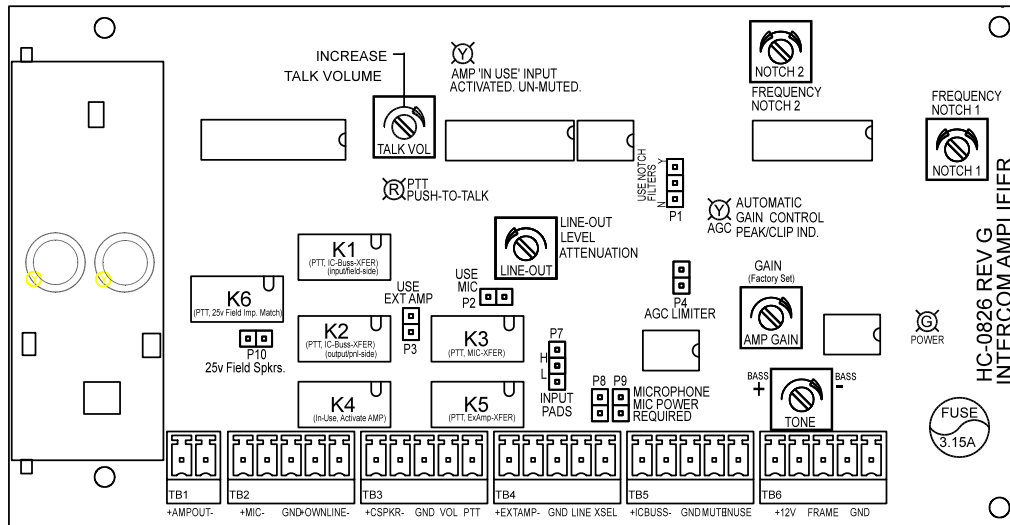
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MODEL

HC-0826

INTERCOM AMPLIFIER

HOOK-UP DIAGRAM

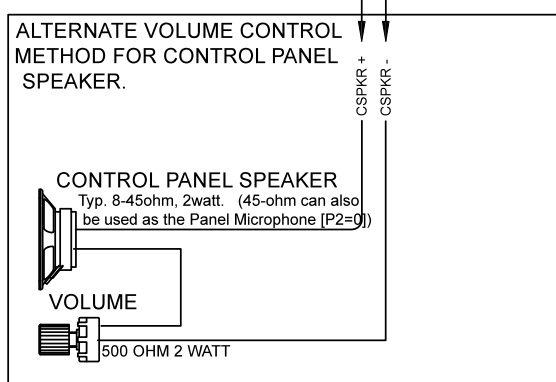


OPTIONAL EXTERNAL POWER AMP.

*Typical for large systems with 25v field IC stations.

*Can also use 25v 10-watt xformer with 'primary' as output for smaller 25v systems.

- P1=USE NOTCH FILTERS?=Y/N=1/0
- P2=PNL MIC + SPKR. vs. 45-ohm MIC/SPKR. ? =1/0
- P3=PTT SELECT EXT AMP?=1/0
- P4=AGC, LIMIT BKGRND NOISE?=1/0
- P7=PAD FIELD INPUT LVL. ?=HIGH/LOW/0
- P8=ELECTRET MIC?=1/0
- P9=ELECTRET MIC?=1/0
- P10=FIELD 25V XFORMER SPKRS. ?=1/0 (1=YES=INSTALL JUMPER) (0=NO=NO JUMPER)





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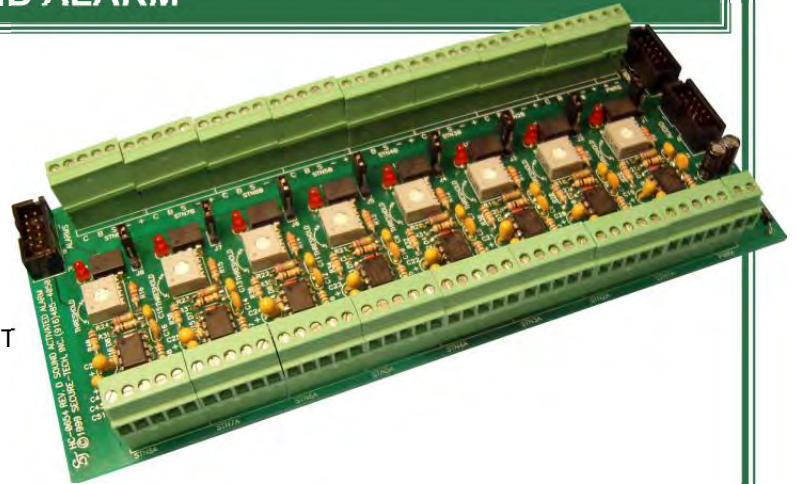
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**MODEL
HC-0654D**

SOUND ALARM

FEATURES:

- 8 OPTO-ISOLATED (7500V) INPUTS
- AUDIO THRESHOLD MONITORING
- USED WITH HC-0644, HC-0845, OR HC-0846
- ALL PLUG CONNECTION
- 8 ENABLE / DISABLE INPUTS
- 8 AUDIO OUTPUTS
- 8 ALARM OUTPUTS
- DAUGHTERBOARD OR 3.25" SNAP TRACK MOUNT
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0654 provides audio threshold monitoring for eight intercom / paging channels.

When a monitored intercom or paging speaker / microphone channel has audio present that exceeds the threshold set for that channel, an intercom call-in and a separate alarm output is generated.

The alarm threshold sensitivity setting for each of the eight monitored channels is separately adjustable. Jumper terminals are provided for each channel to enable / disable alarm monitoring. A separate audio output is provided for each channel to allow recording of our line level signal upon alarm generation.

The daughterboard models plug onto the Molex type field wiring terminals of an HC-0644-M or HC-0846-M intercom selector. The snaptrack mount models provide for interface with the HC-0845 PLC 16 Station Intercom Selector or for obtaining separate day and night level settings on the same audio channels by using two HC-0654 boards in parallel operation.

INPUTS / OUTPUTS:

Eight speaker / microphone and call-In input channels are provided. Eight sound activated call-In outputs and eight separate alarm outputs are provided. Eight enable / disable inputs and eight audio outputs are provided.

Eight busy I / O points are provided to interface shared masters.

Field wiring terminates on five pin Molex insertion tool type or Phoenix type compression screw terminal plugs.

The enable / disable inputs, alarm outputs, and audio outputs are connected on 10-pin male headers. The mating female ribbon type plugs are provided.

SIZE:

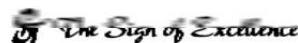
3.75" W x 7.75" L x 0.81" D
95.5mm W x 196.9mm L x 20.6mm D

POWER:

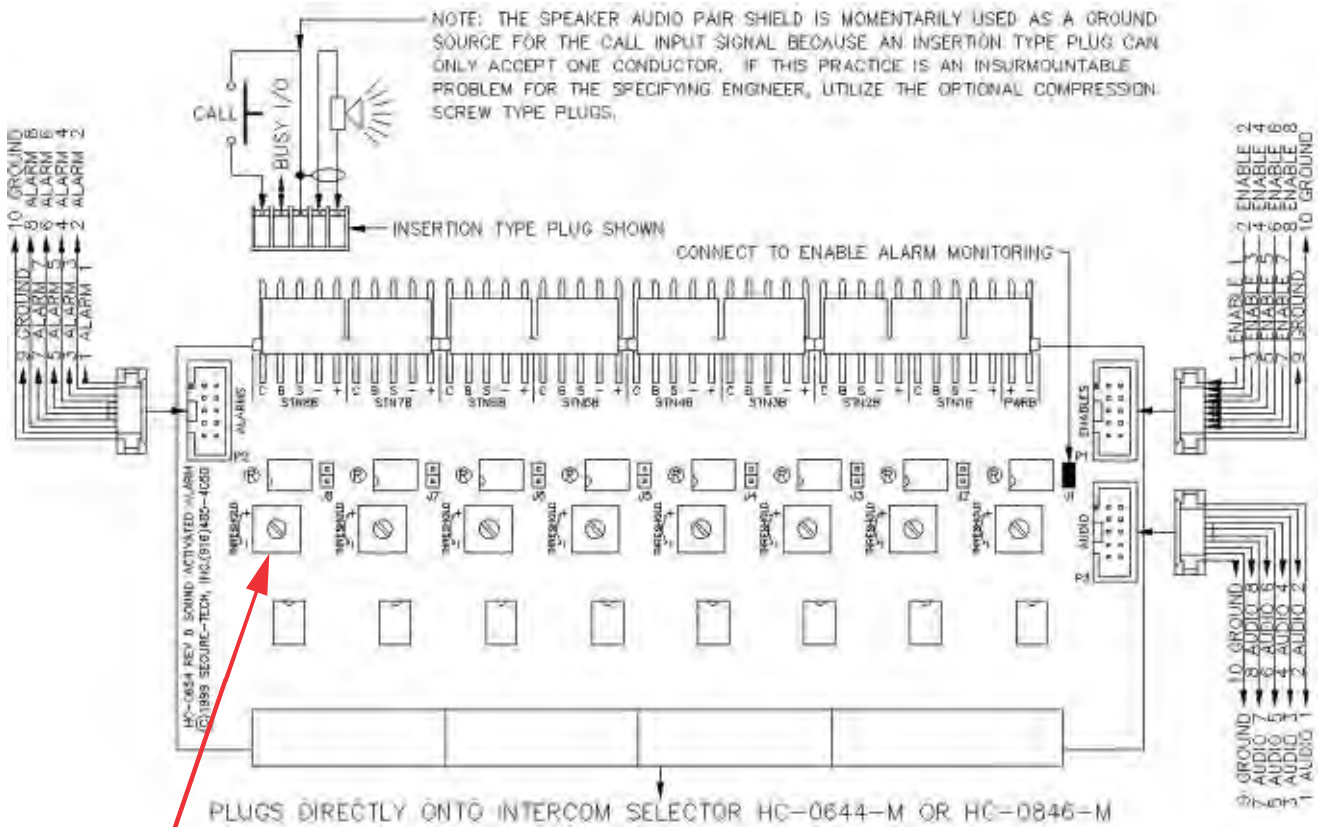
12 - 14 VDC, 60 ma

MODELS:

HC-0654-M-M-D Molex out, Molex in, Daughterboard
HC-0654-M-P-D Molex out, Phoenix in, Daughterboard
HC-0654-M-M-S Molex out, Molex in, Snaptrack mount
HC-0654-P-P-S Phoenix out, Phoenix in, Snaptrack mnt



MODEL HC-0654D SOUND ALARM HOOK-UP DIAGRAM

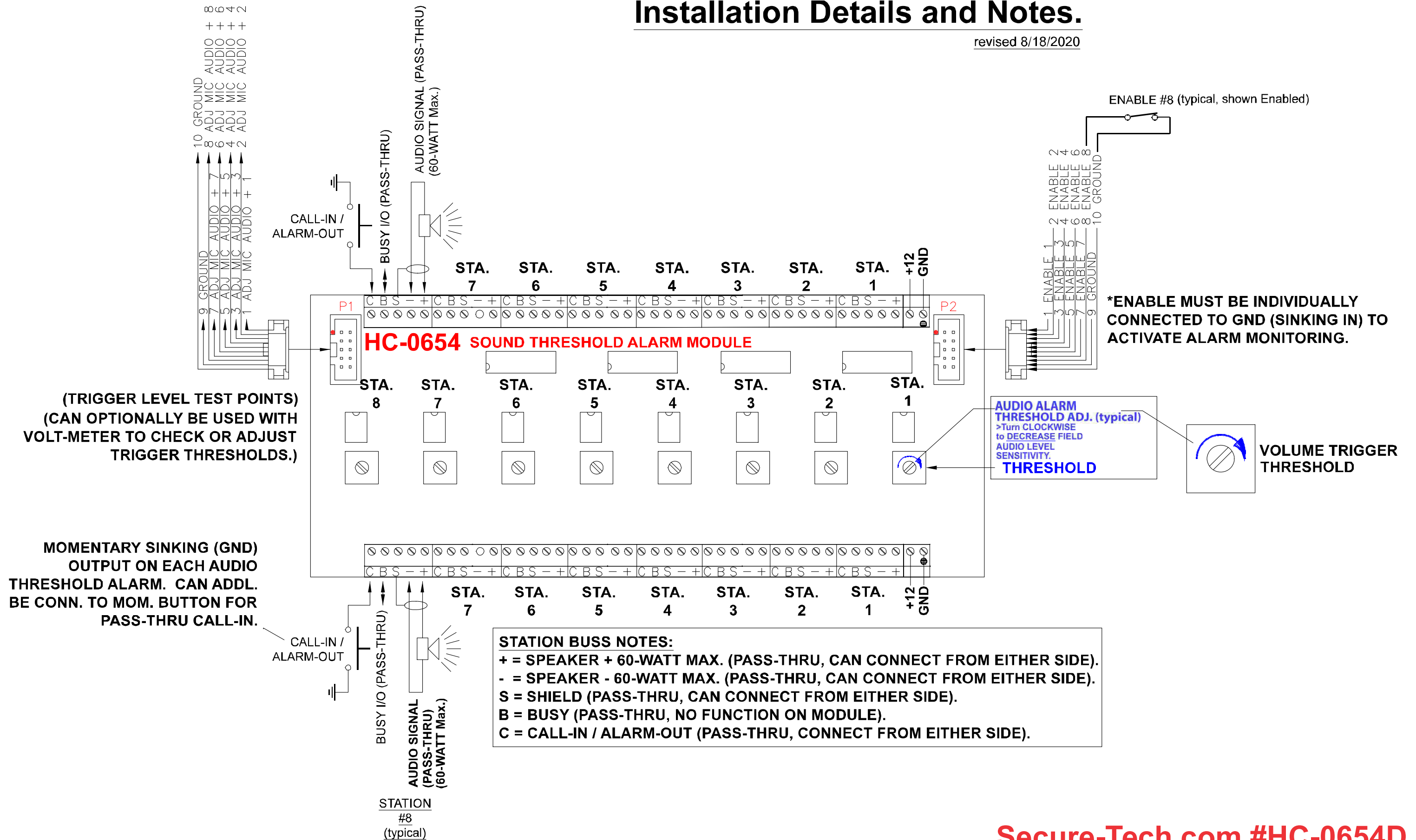


AUDIO ALARM THRESHOLD ADJ. (typical)
 >Turn CLOCKWISE to DECREASE FIELD AUDIO LEVEL SENSITIVITY.

Secure-Tech.com #HC-0654, 8-Station Sound Threshold Alarm Module.

Installation Details and Notes.

revised 8/18/2020



Secure-Tech.com #HC-0654D, PLC INTERFACE DETAIL

TYPICAL HOOKUP 1 OF 8

TO SINKING
PLC INPUTS 1-8
ACTIVE WHEN LOW
9-10 GROUND

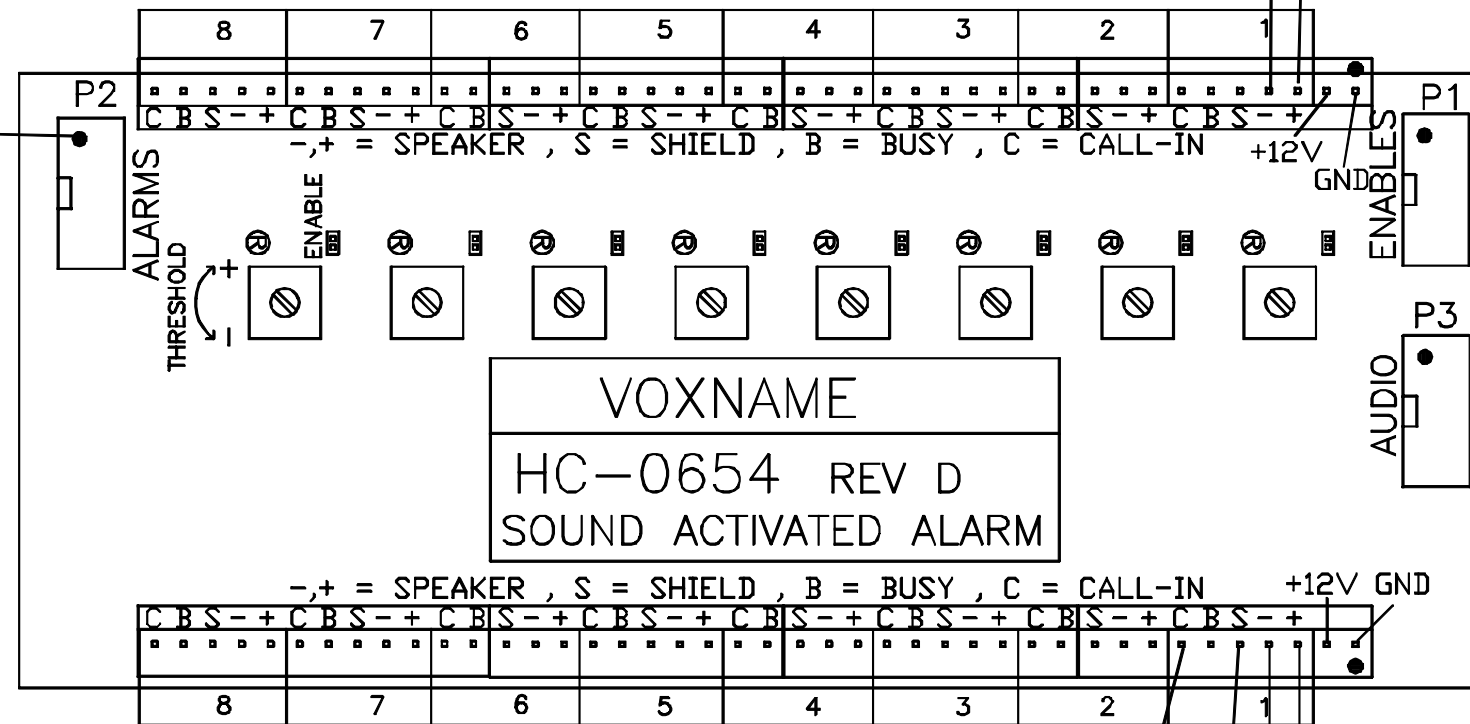
INTERCOM SYSTEM

TO AUDIO
SELECT
RELAY

CALL-IN
/ALARM

CONNECT ALL
TO GND (ENABLE)

NOT USED
WITH PLC

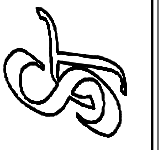


- 1- P2 ALARM - AUTOMATIC CALL-IN
AS SHOWN
- 2- P2 ALARM ONLY
WIRE CALL-IN DIRECT TO PLC

CALL
BUTTON
(IF USED)

FIELD
SPEAKER

SECURE-TECH SYSTEMS
BY TECH CONTROLS CORPORATION
4051 ALVIS COURT #3
ROCKLIN, CALIFORNIA 95677
PHONE: (916) 485-4050



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THRESHOLD ALARM
HC-0654
PLS TYPICAL HOOK-UP

SCALE AS NOTED		
CREATION DATE 05/17/11		
DRAFTED BY TOM T		
REVIEWED BY DICK W		
REVISIONS		
REV #	DATE	BY
1		
2		
3		
4		
5		

TITLE THRESHOLD ALARM
HC-0654
PLC HOOK-UP

WORKING DATE 05/17/2011

FILE # GENERAL

JOB # INTERCOM

DRAWING # XX



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**MODEL
TSS-1**

TAMPERPROOF STAFF STATION, JAMB MOUNT

FEATURES:

- 11GA STAINLESS STEEL FACEPLATE
- TAMPERPROOF SST CALL BUTTON
- TAMPERPROOF SPEAKER PLATE
- 2.5" (63.5mm) DIAMETER SPEAKER
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The TSS-1 intercom station is designed for use in the highest security areas. Its reduced width makes it suited for installation in security hollow metal door and / or window frames.

FACEPLATE:

The faceplate is 11 gauge brushed stainless steel with stamp-formed beveled edges. Tamperproof SST allen-pin head mounting screws are provided.

CALL BUTTON:

The tamperproof button actuator assembly is stainless steel, non-rotating, with a low profile beveled bezel. It is water and dustproof to IP86 specifications. Rated 5 amps @ 250 VAC, no "pig tails" - screw terminals.

SPEAKER:

The 2.5" (63.5mm) diameter weather resistant speaker / microphone, has a 1.1 oz. (34.2 g) barium ferrite ceramic magnet and is rated 4 watts @ 45 ohm with a frequency response from 200 to 8000 hz. All ferrous material has a corrosion resistant finish. Models with (-T) provide an 8 ohm speaker and a 25 volt transformer with 0.5, 1 & 2 watt taps.



***REQUIRES CUSTOM BACK BOX**

SPEAKER MOUNTING PLATE:

The mounting plate is zinc plated 14 gauge CRS, providing both the speaker and call button protection from liquids and vandal probes. The plate is 3" (76.2mm) wide by 4.5" (114.3mm) high and is designed for installation into a security door frame prepared cutout with a suitable conduit / grout box provided. A cutout template is provided.

SIZE:

3.50" W x 5.00" L x 1.35" D
88.9mm W x 127mm L x 34.3mm D

MODELS:

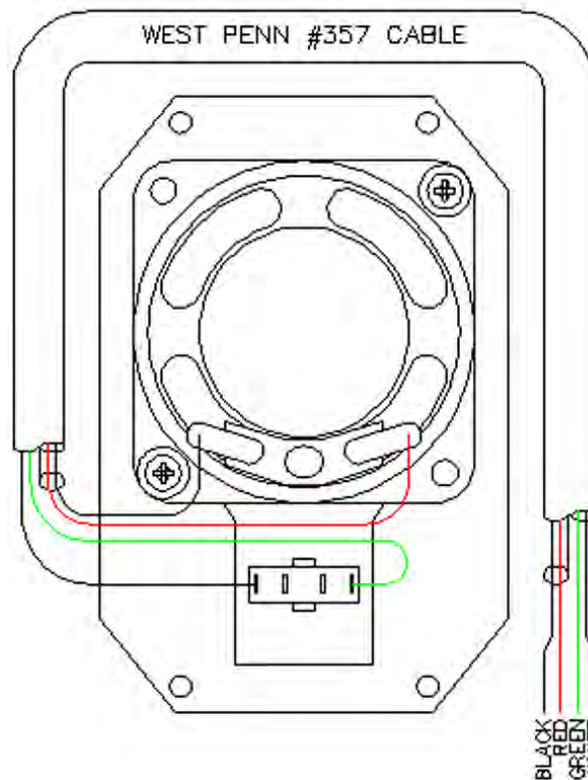
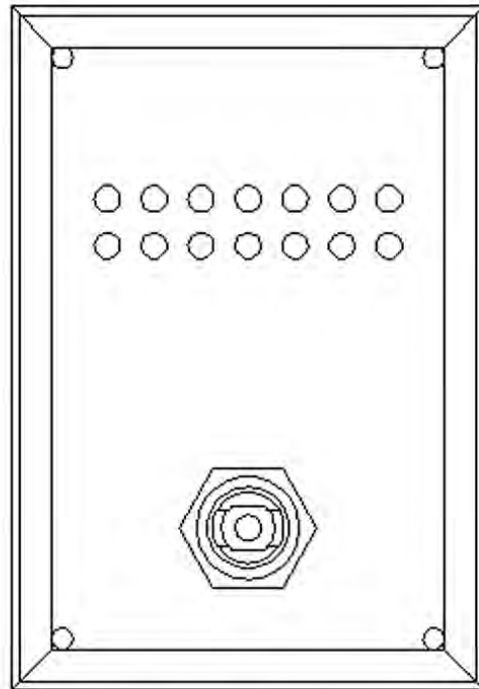
TSS-1	45 ohm speaker
TSS-1T	8 ohm speaker with 25 volt transformer

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MODEL

**TSS-1
TAMPERPROOF STAFF STATION, JAMB MOUNT**

HOOK-UP DIAGRAM



BACKSIDE VIEW



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**MODEL
TSSF-2**

TAMPERPROOF STAFF STATION, 2 DEVICE RING MOUNT

FEATURES:

- 11GA STAINLESS STEEL FACEPLATE
- TAMPERPROOF SST CALL BUTTON
- TAMPERPROOF SPEAKER DESIGN
- 2.5" (63.5mm) DIAMETER SPEAKER
- STANDARD 2-GANG MOUNTING
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The TSS-2 intercom station is designed for use in the highest security areas. It is suited for both interior and exterior wall mount applications.

FACEPLATE:

The faceplate is 11 gauge brushed stainless steel with radiused corners. Tamperproof SST Torx-2 pin head mounting screws are provided.

CALL BUTTON:

The tamperproof button actuator assembly is stainless steel, non-rotating, with a low profile beveled bezel. It is water and dustproof to IP68 specifications. Rated 5 amps @ 120 VAC, no "pig tails" - screw terminals.

SPEAKER:

The 2.5" (63.5mm) diameter weather resistant, speaker / microphone has a 1.1 oz. (34.2 g) barium ferrite ceramic magnet and is rated 4 watts @ 45 ohm with a frequency response from 200 to 8000 hz. All ferrous material has a corrosion resistant finish. Models with suffix "T" provide an 8 ohm speaker and a 25 volt transformer with 0.5, 1 & 2 watt taps.

MICROPHONE: (SPECIAL VERSION)

Electret, Omni-Directional, Frequency Range 50-15k. Sensitivity -42 dB ±, Signal-to-Noise Ratio >60dB.



SIZE:

5.00" W x 5.00" L x 1.35" D

127mm W x 127mm L x 34.3mm D

MODELS:

TSSF-2/11	45 ohm speaker
TSSF-2/11M	45 ohm speaker with microphone
TSSF-2/11T	8 ohm speaker with 25 volt transformer
TSSF2-2/11	Two call-in - 45 ohm speaker
TSSF2-2/11T	Two call-in - 8 ohm speaker with 25 volt transformer
TSXF	Without push button

Install on two-device, 1/2" rise, conduit box coverplate, on 4-square deep box or a two-device concrete outlet box 3.5" deep.

ACCESSORY:

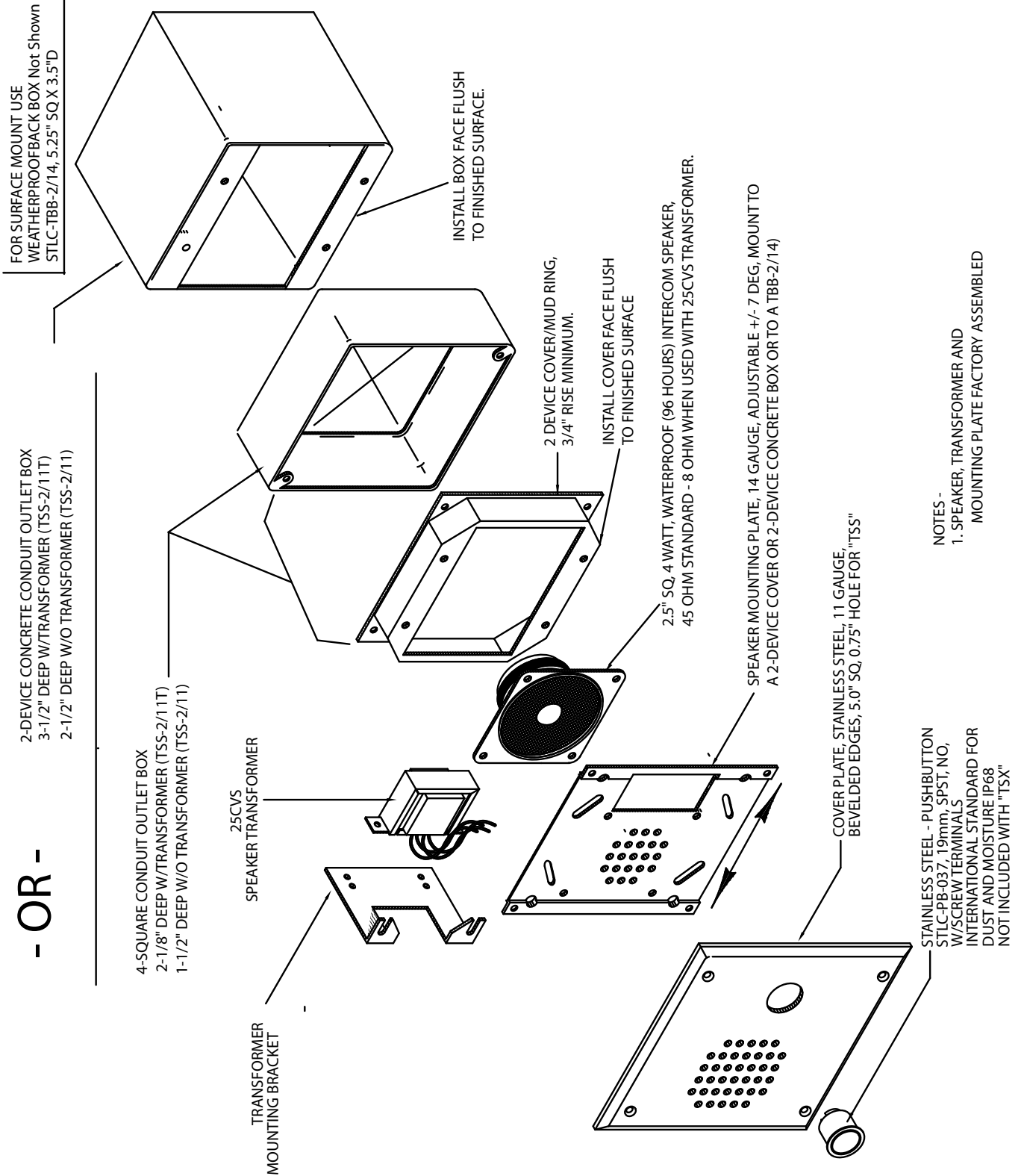
TBB-2/14 Weatherproof surface mount backbox, no knockouts, 14 gauge CRS, painted flat black, 5.25" (133.3mm) square x 3.0" (72.4mm) D.

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MODEL

TSS-2/11T SHOWN TAMPERPROOF STAFF STATION, 2 DEVICE RING MOUNT

EXPANDED VIEW



NOTES -
1. SPEAKER, TRANSFORMER AND MOUNTING PLATE FACTORY ASSEMBLED

- OR -



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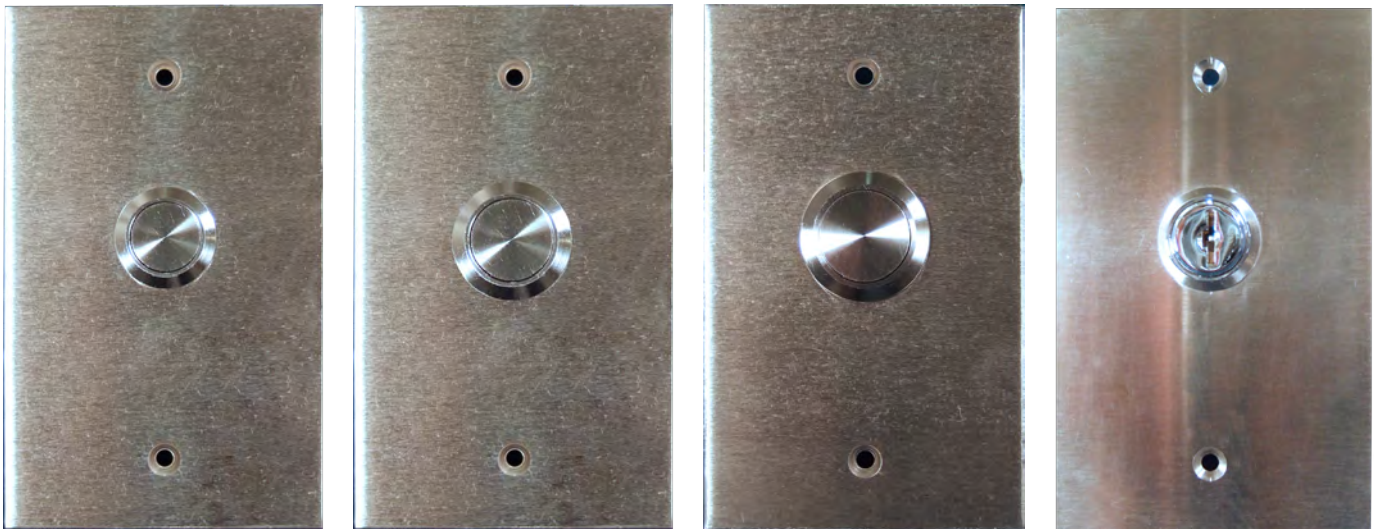
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**MODEL
TPB, TPH, TPK
Series**

STAINLESS STEEL PUSH BUTTON - KEY SWITCH



DETENTION PLATES WITH STAINLESS STEEL SWITCHES:

TPB - **1** / **11** - **19** **A**

Plate Type
TPB SS Button
TPH Hole Only
TPK Keypad

Plate Size
1 1-Gang
2 2-Gang
C Custom

Plate Gauge
11 11-ga
14 14-ga
16 16-ga
20 20-ga

Switch Size MM
Switch/Hole 19 22 25
Keypad 19

Switch Action
Pushbutton A Alternate Action M Momentary
Keypad A Maint-Maint M Maint-Mom
Plate & Hole Only H
Custom C

GENERAL OPTIONS:

Etech Stainless Steel Plates and Switches are available with custom engraving, 3-position keyswitches (many models), key removal options, rounded plate corners and additional switches and/or LED's - Please call to discuss your project's needs.

PUSHBUTTON FEATURES:

- Stainless Steel Button and Bushing
- IP-65 Minimum Rating
- Pigtail or Screw Terminals
- Silver Plated Contacts
- 3A @ 250vac N.O. Contacts
- N.C. Contacts Available

KEYSWITCH FEATURES:

- NKK brand CKL-Series 19mm High Security Key-Switches
- Rugged Die-Cast Zinc Alloy Housing - Chrome Plated
- Silver Plated Contacts 3A@250vac
- Self-cleaning sliding contacts for high reliability and long operating life
- Flat key standard, Tubular key available.



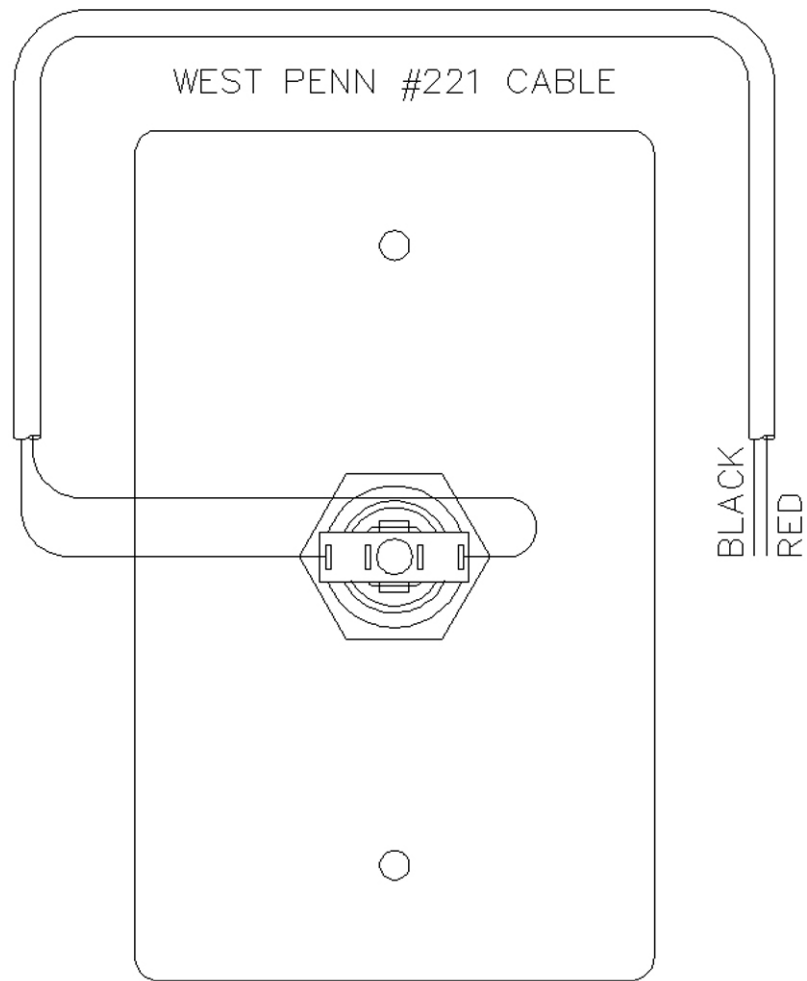
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MODEL

TPB-1

TAMPERPROOF PUSHBUTTON STATION, 1 GANG MOUNT

HOOK-UP DIAGRAM





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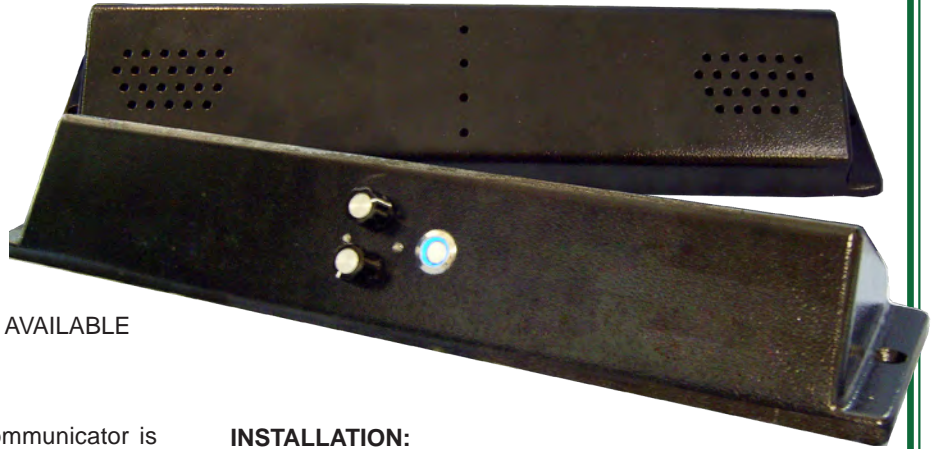
TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

**MODEL
JUSTTALK**

DUPLEX TALK THROUGH COMMUNICATOR

FEATURES:

- FULL DUPLEX COMMUNICATION
- HANDS FREE OPERATION
- STYLISH APPEARANCE
- MUTE AND PRIVACY OPTION
- MONITOR AND RECORD
- TAMPER RESISTANT DESIGN
- 2 YEAR WARRANTY
- ROTARY OR P.B. VOLUME CONTROL AVAILABLE



FUNCTIONAL DESCRIPTION:

The "JUSTTALK" Duplex Talk Through Communicator is designed for staff or attorney/client interview rooms, visitation booths, control room to corridor, and other applications requiring communication through a security glass partition or wall. Full duplex two-way communication is provided. The talk through communicator frequency range is 400 to 4000 Hz \pm 3 db. . Each pair of units is tuned to the installed location environment to maximize sound levels. The result is very natural hands free communication.

JUSTTALK The base system consists of a pair of identical units, typically one on each side of a viewing window or wall. Usually used for visitation. Order model **JUSTTALK**.

JUSTTALK-M Two switches allow an attorney or staff to silence (off) the voice output from the inmate side; or to mute (off) the staff/attorney's side output for privacy. Provided with audio lineout function to allow monitoring and recording. Order model **JUSTTALK-M**.

JUSTTALK-V2 Two volume controls allow an attorney or staff to adjust the inmate and staff talk volume from an inmate conversation level to a monitor minimum and a staff/attorney conversation level to mute (off) unit for privacy. Provided with audio lineout function to allow monitoring and recording. Rotary or 4-Level P.B. Volume Control available. Order model **JUSTTALK-V2** or **JUSTTALK-V2-PB**.

SIZE:

2.52" H x 4.44" D x 17.0" L

64.0mm H x 112.8mm D x 431.8mm L

POWER:

12 - 14 VDC, 1.4 AMPS per pair.

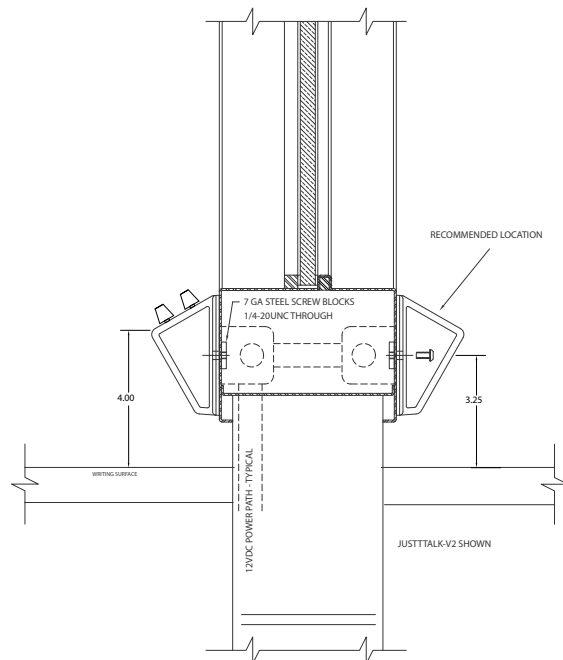
.35 INCH (NOMINAL) CAST ALUMINUM, SEMI-GLOSS BLACK

(JUSTTALK-V2 SHOWN)

INSTALLATION:

The recommended mounting location is on a 4" high hollow metal window frame sill, centered between sidewall partitions, with the speakers and microphones side pointing down towards the countertop reflective surface.

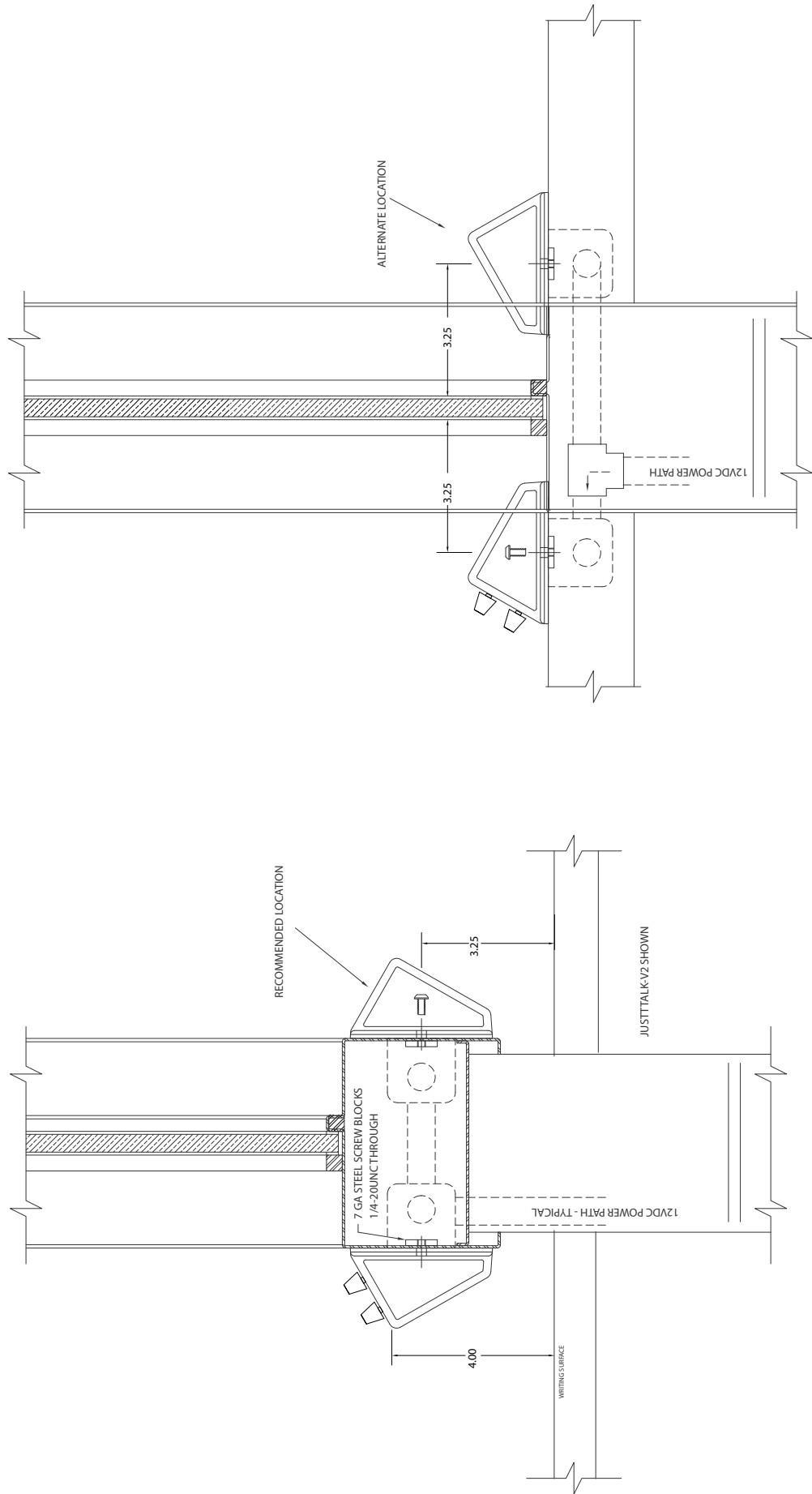
An alternate mounting location is upon the countertop, centered between sidewall partitions, with the speakers and microphones side facing towards the viewing window.



NOTE: Due to Full Duplex (two-way) audio, maximum available volume levels may be limited by room acoustics (hard surfaces), that could require added acoustic dampening materials to correct.

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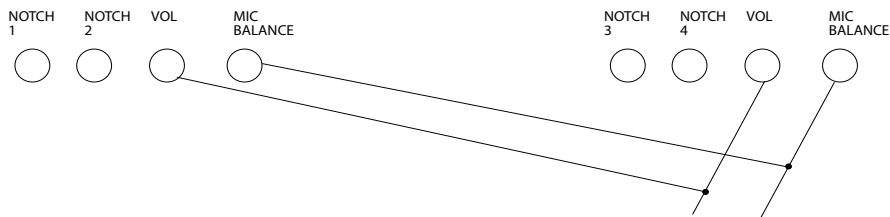
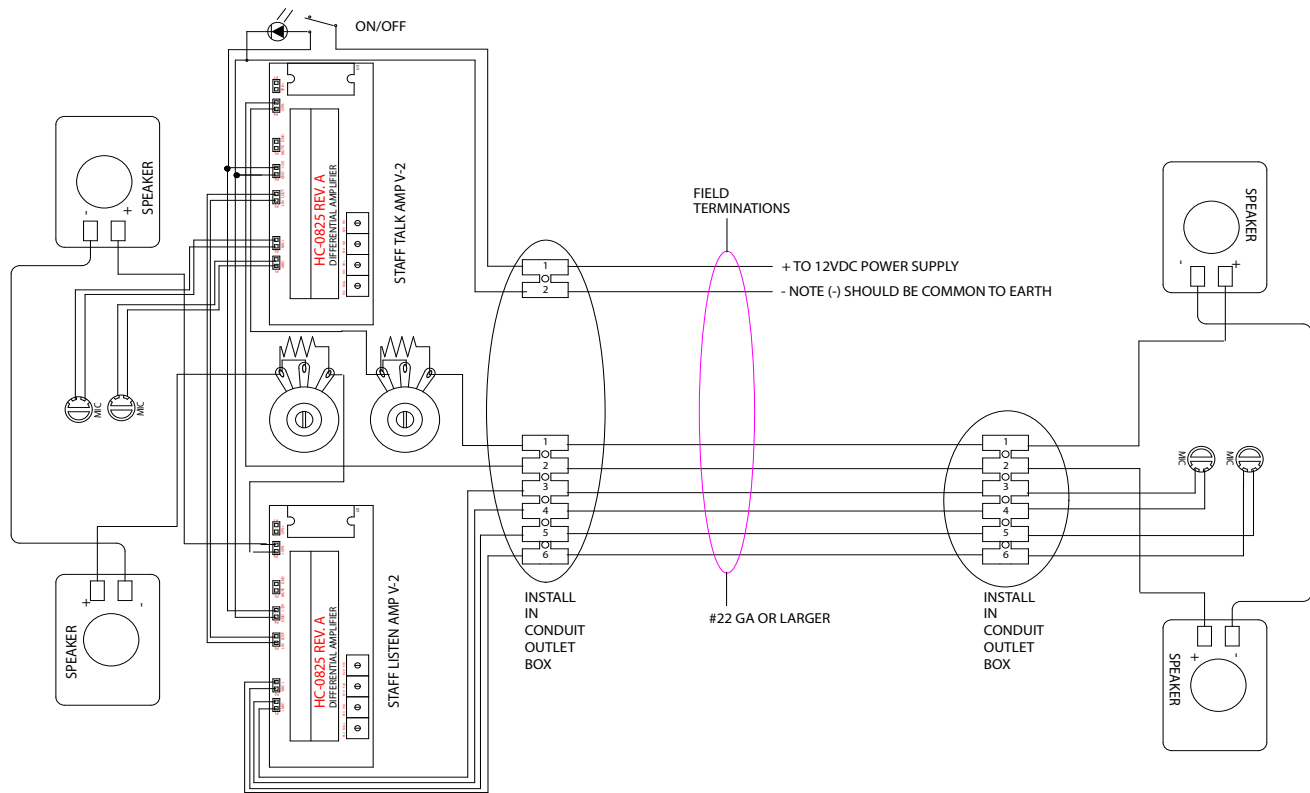
MODEL
JUSTTALK
 DUPLEX TALK THROUGH COMMUNICATION
 TYPICAL INSTALLATION



MODEL: JUSTTALK-V2

DUPLIX TALK THROUGH COMMUNICATOR

INSTALLATION DETAILS / HOOK-UP DIAGRAM



ADJUSTING JUSTTALK UNITS – CLOSE DOORS AND WINDOWS -

Units are shipped with factory operating settings and should require only minor adjustments. If feedback does occur, go to steps #1 and #5, use small increment steps of tuning volume and notch filters.

The adjustments require a small "flat blade" screwdriver –

Remove 8 set screws for access to internal adjustment pots – the right side 4 adjustments are for client side station.

Note: tapping housing near mike with a finger will aid in adjusting by providing a reference level. If adjustment steps #3 and #5 does not clear the feedback, the following is the full re-calibration procedure.

Be consistent - be patient.

Set external volume knobs - fully clockwise (max volume setting) upper knob is client listen

Set internal volume pots - mid-way

Set notch filter pots -mid-way

Initially retain factory internal mike pot settings (see step #2)

Power up (ring LED illuminates)

If feedback occurs -

1. Reduce volume – adjust volume pots clockwise until feedback is eliminated – alternate between the two amplifiers so both are approximately at the same volume level –
 - a. Adjust to highest volume -
2. Adjust mike pot balance on each unit – alternate between the two amplifiers so both are approximately at the same volume level –
 - a. Adjust to highest volume –

Alternate adjustments between steps #3 and #4 -

3. Increase volume – adjust internal volume pots counterclockwise until feedback re-occurs. Try to keep both amplifiers at same volume level. When feedback is just starting, go the step #4.
4. Adjust notch filter pots until the feedback frequency is muted – begin with notch pot #4 to match the lowest frequency (where possible).

Continue with step #5.

5. Repeat steps #3 and #4 for each feedback frequency

There are four notch filters (two on each amplifier) – each one will mute a different feedback frequency.

Making small adjustments between testing will be to your benefit –

Units are calibrated for maximum volume. Adjust external volume knobs for desired operating volume.

Replace 8 set screws –



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TELEPHONE VISITATION INTERCOM

TELEPHONE HANDSETS, WALL PLATES, BASES, AND BACKBOXES

FEATURES:

- FOR VISITATION OR INTERCOM SYSTEMS
- 500 SERIES HANDSETS W/SEALED CAPS OR SET-SCREWS OPTIONAL
- CARBON OR DYNAMIC TRANSMITTERS WITH OR WITHOUT HOOKSWITCH
- DETENTION GRADE ASSEMBLY ARMORED CABLE (CUSTOM LENGTHS) EXCLUSIVE CABLE MOUNTING BLOCK STEEL LANYARD
- STAINLESS STEEL WALL PLATES
- CHROME HANGERS - DPDT OR 4PDT
- HANDSET POWER AMPLIFIED OPTION
- RETRO SURFACE SECURITY BACKBOXES
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

For use in locations where privacy is required. Industry standard 500 series handsets are available in various styles with a complete array of functions and bases:

- Handset with chrome hanger and hookswitch assembly mounted on a stainless steel plate
- Handset with desk base (500/2500 series)
- Handset adjustable power amp receiver (-P)
- Handset Push-To-Talk button (-T)

Standard - 2-device stainless steel wall mount plate (W), carbon (C) transmitter, chrome hanger, DPDT hookswitch, tamper resistant cable mounting block. Other transmitters available are Dynamic (D) and Electret (E). Available cables lengths are 18", standard 32", 48" or 54" armored cables, all with steel LANYARD strain relief and standard 6, 9 or 15 foot coiled cords. Custom armored cable lengths from 10" to 9' (handicap). Beige is standard color. Black (-BK), Green (G) and red (-RD) are available. Heavy duty coiled cords are available.

Hookswitches may be deleted when remotely controlled - (add "-E"). for significant savings.

Surface mounted steel security backboxes are available in various designs, including a 10 gauge steel beveled safety type (TBB-2/11B).

The CTI-1 cross-talk isolation module may be used to isolate, power and control a unit of two or three wallsets from cross-talk interference or leakage with other units. Eliminates home run n wiring. Installs in either wallset backbox. Power supply requirement is 20 ma per unit @12-18 VAC/VDC.

MODELS:

ALL ARMORED CABLES CONTAIN A STEEL LANYARD

Wall mount SST plate, 18", 32", 48" or 54" armored cable

WC2-32AMCL w/plate Carbon xmtr, 2 gang, armor cable

WD2-32AMCL w/plate Dynamic xmtr, 2 gang, armor cable

Replace the 2 with a 4 for a 4 gang SST plate

Wall mount SST plate, 6', 9' OR 15" coiled cord

WC2-6CC Carbon xmtr, 2 gang, 6' cord

WD2-15CC Dynamic xmtr, 2 gang, 15' cord

Replace the 2 with a 4 for a 4 gang SST plate

CC2-32AMCL CLIP HANGER, snaps handset in cradle

in wall, overhead or sloped panel installations.

Desk mount 500/2500 base, coiled cord

DC1-6CC Carbon xmtr, 6' cord

DD1-6CC-SP-T Dynamic xmtr, 6' cord, base speaker, handset push-to-talk

Handset only

HD9-32AMCL Dynamic xmtr, armor cable

HC9-6CC-CDC* Carbon xmtr, 6' cord, CDC design

WP2-CDC* Wall plate, RJ-11 jack, CDC design

*Complies with the California Department of Corrections specifications for prisoner side visitor telephone system

Tamperproof surface mount steel security backboxes

TBB-2/10 10 gauge, 5.25" (133.3mm)

square x 3" D (72.4mm), Steel

TBB-2/11B 11 gauge, 8.5" (215.9mm) square

x 1.63" D (41.28mm), prime finish

TBB-2/14 14 gauge, 5.25" (133.3mm)

square x 3" D (72.4mm), black

Cross-talk isolation circuit

CTI-1 Isolates up to three handsets

Detention grade handset cable mounting block

CMB Aluminum, 1" (25.4mm) square x

0.63" D (15.88mm), natural

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MODEL CP100 SERIES

CONTROL PANEL KITS

FEATURES:

- 2.5" (63.5mm) SPEAKER
- MICROPHONE
- VOLUME CONTROL
- 25 VOLT TRANSFORMER AVAILABLE
- HC-0826 AMPLIFIER COMPATIBLE
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The control panel kits compliment the HC-0826 Intercom Amplifier and may also be used with other manufacturers amplifiers.

SPEAKER: TSP-25 TSP-25-8

The 2.5" (63.5mm) diameter weather resistant, speaker / microphone has a 1.1 oz (34.2 g) barium ferrite ceramic magnet and is rated 4 watts @ 45 ohm with a frequency response from 200 to 8000 hz. All ferrous material has a corrosion resistant finish. A black finished perforated steel speaker grill is provided. 45 or 8 ohms.

The speaker footprint is 2.53" (64.26mm) square. The four mounting holes are located at the corners of a 2.06" (52.32mm) square.

MICROPHONE: MIC-2

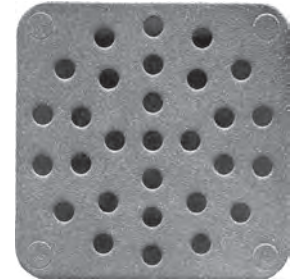
The electret microphone is omnidirectional and has a frequency response of 20Hz to 16Khz. Sensitivity is -42dB ± 3dB. Signal to noise ratio is greater than 60dB. Operating voltage is 4.5 to 10 maximum. Current draw is 0.8ma. A rubber slip-mount with two mounting hole ears is provided.

STAINLESS STEEL PUSHBUTTON: TPB-037 OPTIONAL

Low profile, marine grade stainless steel, 22 mm diameter, 1A 50 volt, screw terminals, front panel sealed to Specification IP68, SPST, available with imbedded LEDs. Mounting hole 19mm, when used as a PTT retrofit, will fit .75" square, hole, use ring washer if necessary.

VOLUME CONTROL:

The volume control potentiometer is 500 ohms at a minimum 2 Watts @ and includes an operating knob.



GRILLE: OPTIONAL GRILL-PNL

The speaker grille is black powder-coated aluminum sheet, with twenty-nine 3/16" diameter sound transmission holes, measuring 2.5" square by 0.08" thick, and includes four embedded 6-32UNC by 1" long studs .

The grille mounts on the face side of a control panel, with the four studs extending through the panel. The speaker mounts onto the four studs from the backside. Provide a 2-1/4" diameter speaker hole and four 3/16" diameter stud clearance holes in the facepanel.

MODELS - CP Series Kits - Typical:

- | | |
|------------|--|
| CP105 | 45 ohm speaker, electret microphone, 500 ohm 2 watt volume potentiometer with Knob |
| CP106 | 8 ohm speaker, electret microphone, 500 ohm 2 watt volume potentiometer with Knob. Standard with the HC-0826 |
| GRILLE-PNL | Grille for 2.5" diameter speaker - with tamper screen - Optional |

TAMPER RESISTANT PUSH BUTTON - Optional PTT

- | | |
|---------------|---|
| LC-TPB-037 | Stainless Steel, PUSH-TO-TALK, Intercom station CALL-IN |
| LC-TPB-037-x | x = DOT/LED R-RED, Y-YELLOW G-GREEN, B-BLUE (2 volt) |
| LC-TPB-037-xR | x = RING/LED RR-RED, YR-YELLOW |
| LOW | GR-GREEN, BR-BLUE (2 volt) |





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DETENTION ELECTRONIC SYSTEMS

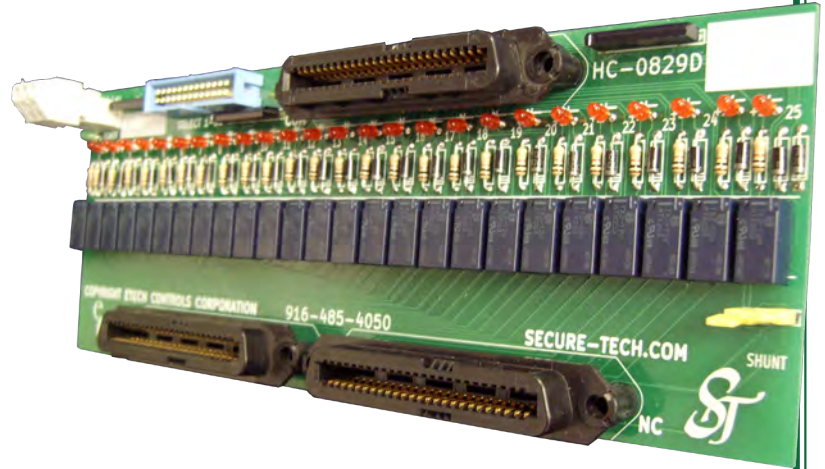
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MODEL HC-0829****

TELEPHONE DISCONNECT MODULES

FEATURES:

- 25 PAIR TELEPHONE LINE SWITCHING
 - HIGH QUALITY AUDIO SWITCHING RELAYS
 - AMP "CHAMP" 25PR. FIELD CONNECTIONS
 - "POWER" STATUS - GREEN LED
 - "ALL SELECT" STATUS - RED LED
 - LINE 25 SHUNT SELECTION
 - 2 YEAR WARRANTY
- CIRCUIT TYPE: N.O., N.C. OR BOTH



FUNCTIONAL DESCRIPTION:

The HC-0829 Telephone Disconnect provides the ability to connect or disconnect telephone audio lines, either individually or in 25 pair cable groups. This product performs this switching function with very high quality, long life two pole DPDT audio relays.

All Active relays are indicated with an individual Red Status LED. The current activation status of "GROUP SELECT" is indicated by an "ALL-SELECTED" Red Status LED. The presence of 12vdc operating power is indicated with a Green LED.

Telephone line 25 is provided with a pair of jumper terminals to shunt around the disconnect relay. The twenty-fifth pair maybe used to run telephone device operating power , or a priority telephone line that should not be disconnected.

INPUTS / OUTPUTS:

There are twenty-five (25) audio pair inputs, twenty-five (25) Individual Select Inputs, a "Select-All" Group Activation Input, two (+ & -)12vdc power input terminals, and twenty-five (25) audio pair relay outputs. Audio output circuits can be ordered to be "Normally Closed" (N.C.) for "Disconnect" upon activation requirements, "Normally Open" (N.O.) for "Connect" upon activation, or supplied with both N.C. and N.O connectors (NCNO).

Twenty-five pair cable connections terminate on pluggable fifty point Amphenol brand, female "CHAMP" Telephone Connectors (2). The two 12vdc power inputs and the Select-All Input utilize a pluggable screw connector, sized for 22 to 14 AWG conductors. Individual disconnect inputs are available on a 26-Pin Ribbon Connector.

RATINGS:

The relay contacts are gold plated silver to provide an ultra-low switching capacity of 10 ma @ 10 mv DC for high quality audio switching. Relay lifespan is expected to exceed 500,000 operations at telephone line levels. 60 watts max.

SIZE:

3.25" W x 9.0" H x 0.93" D
82.55mm W x 228.6mm H x 23.8mm D

POWER:

12-14 VDC, 560ma

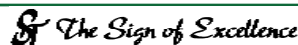
MODELS: (NOTE: 24vdc Control Available)

- #HC-0829D-12V-ALL-NC, Group "Disconnect" - 12vdc
- #HC-0829D-12V-ALL-NO, Group "Connect" - 12vdc
- #HC-0829D-12V-ALL-NCNO, Group "N.C. and N.O." - 12vdc
- #HC-0829D-12V-IND-NC, Individual "Disconnect" - 12vdc
- #HC-0829D-12V-IND-NO, Individual "Connect" - 12vdc
- #HC-0829D-12V-IND-NCNO, Individual "N.C. and N.O." - 12vdc

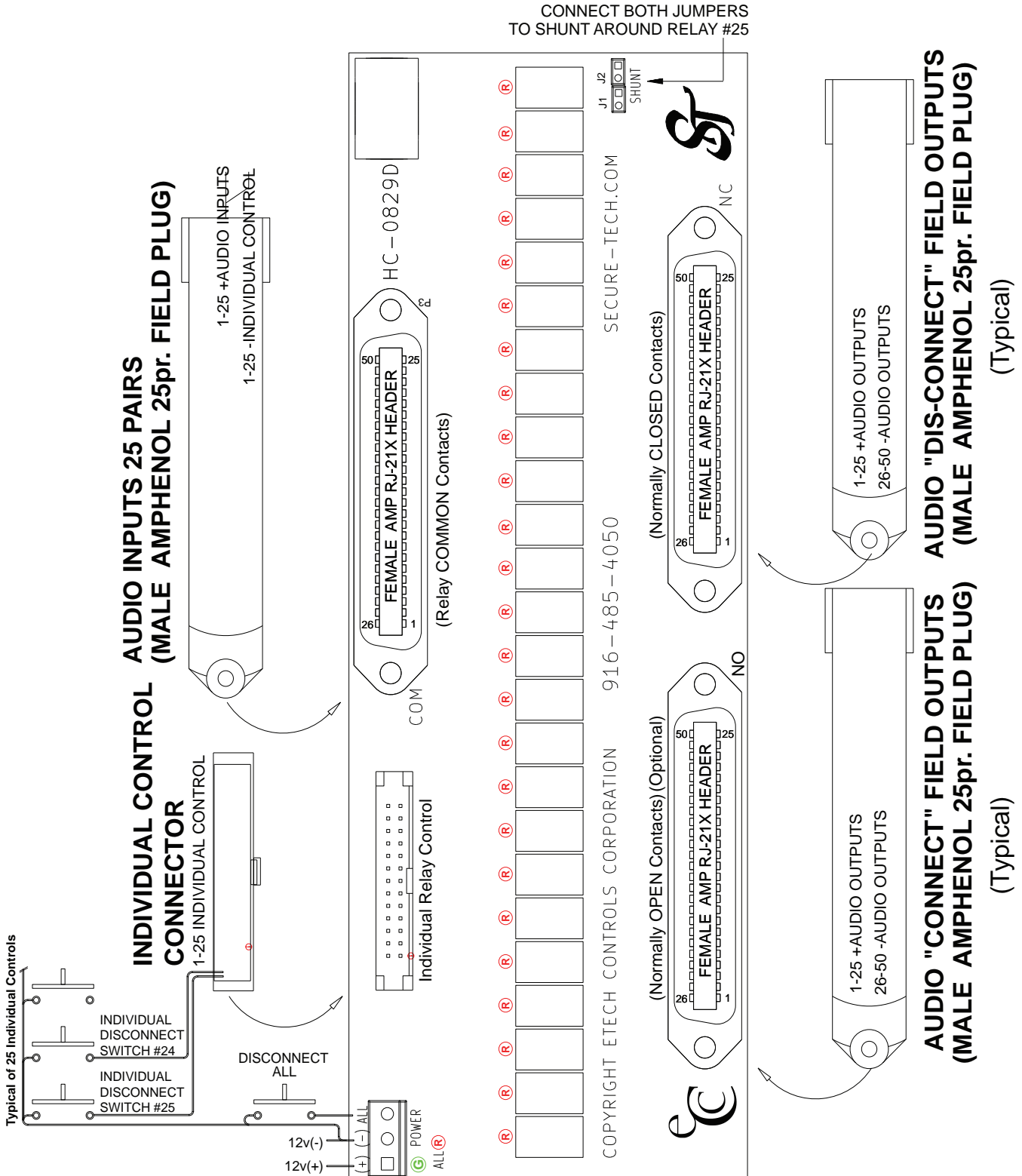
LEGACY MODELS

Also available with Male Amphenol Champ Connectors

- #HC-0829AA, Group & Individual "Disconnect"
- #HC-0829AB, Group "Disconnect" ONLY



MODEL: HC-0829D
TELEPHONE DISCONNECT CONTROL MODULE
HOOK-UP DIAGRAM
(Model #HC-0829-12V-IND-NCNO shown)





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MODEL HC-0829-SUP

TELEPHONE DISCONNECT -w- SUPERVISION (Federal Standard)

FEATURES:

- 25 SUPERVISORY CONTACTS OUT
- N.O. AND N.C. TEL LINE OUTPUTS
- A/B SWITCH - CAN TRANSFER ALL 25 PAIRS
- HIGH QUALITY AUDIO SWITCHING RELAYS
- INDIVIDUAL OR 25 PAIR SWITCHING
- RED "SELECT ALL" STATUS LED
- GREEN POWER STATUS LED
- LINE 25 SHUNT SELECTION
- 25 LINE STATUS RED LEDS
- 2 YEAR WARRANTY



FUNCTIONAL DESCRIPTION:

The HC-0829-SUP Telephone Disconnect Module with Supervision provides the ability to connect or disconnect telephone audio lines, either individually or in 25 pair cable groups. Telephone companies require that both sides of the audio line be switched when selecting a line on or off. This product performs this switching function with high quality two pole audio relays.

The on / off status of each separate telephone line is indicated with a red LED. In addition, supervisory relays provide a confirmation of circuit activation with a "sinking" output provided per telephone line. The "Select All" selection status is indicated with a red LED, and the presence of 12vdc operating power is indicated with a green LED.

Telephone line 25 is provided with a pair of jumper terminals to shunt around the line-25 relay - may be used to run telephone device operating power that should not be disconnected.

INPUTS / OUTPUTS:

There are twenty-five relay select inputs, twenty-five supervisory "return" outputs, twenty-five audio pair inputs, twenty-five audio pair N.O. outputs, twenty-five audio pair N.C. outputs, two 12vdc power input terminals and a "Select-All" input terminal.

All 25 pair connections terminate on fifty point "D" shell (AMP CHAMP) connectors (4). The two 12vdc power inputs and the disconnect all input are connected to a saddle clamp terminal strip, sized for 22 to 12 AWG stranded conductors.

The relay contacts are rated at 2 amps and are gold plated silver to provide ultra-low level switching of 10 ma @ 10 mv DC for exceptional audio quality.

SIZE:

4.5" W x 8.25" H x 0.93" D
114mm W x 209.6mm H x 23.8mm D

POWER:

12-14 VDC, 840ma (#HC-0829-xxx-12)
24-26 VDC, 420ma (#HC-0829-xxx-24)

MODELS:

HC-0829-AA-xx	Group and Individual Control
HC-0829-AB-xx	Group Control Only
HC-0829-SUP-xx	Supervisory with Group & Individual

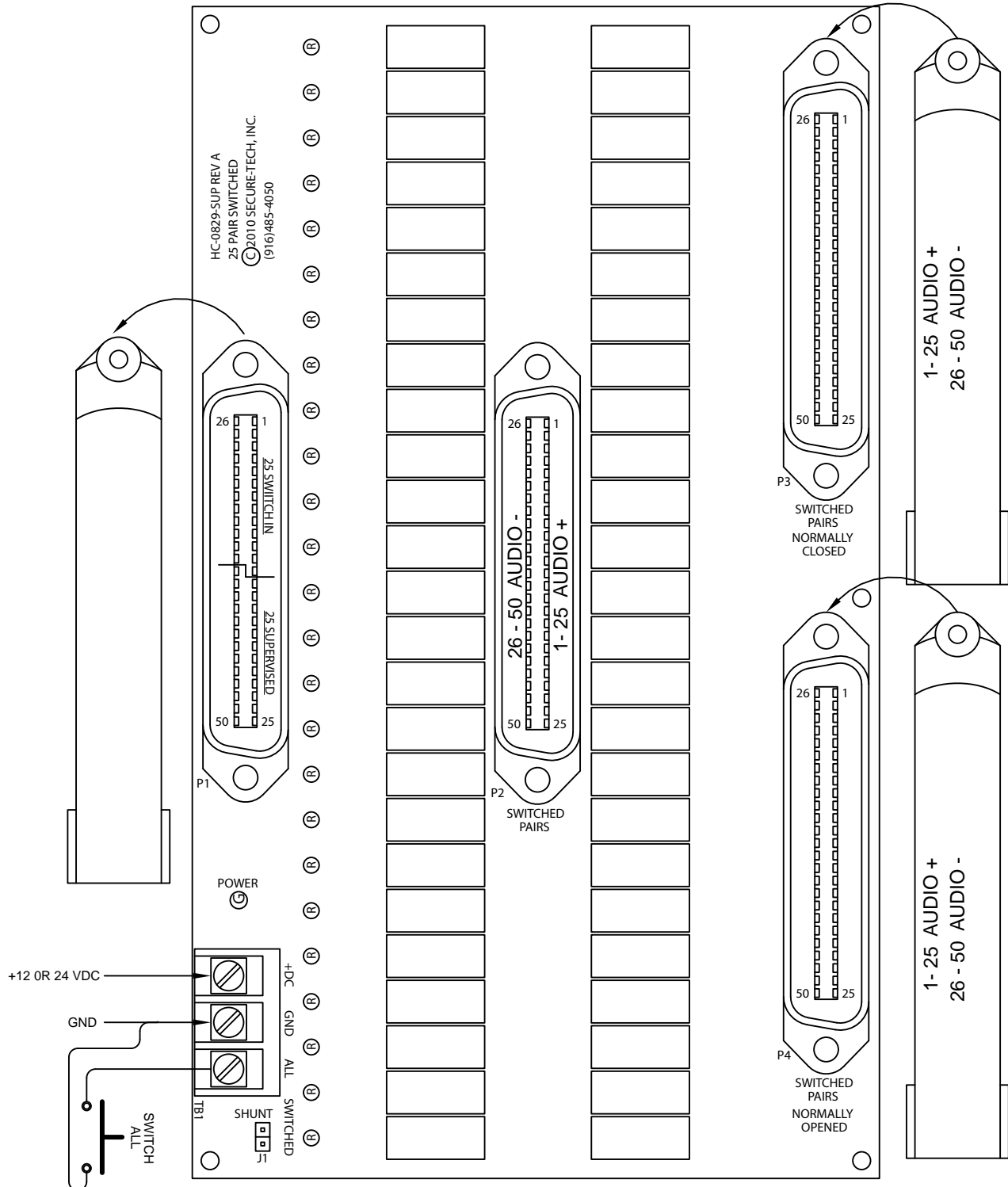
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MODEL

HC-0829-SUP

TELEPHONE DISCONNECT WITH SUPERVISION

HOOK-UP DIAGRAM





SECURE-TECH.com

DETENTION ELECTRONIC SYSTEMS

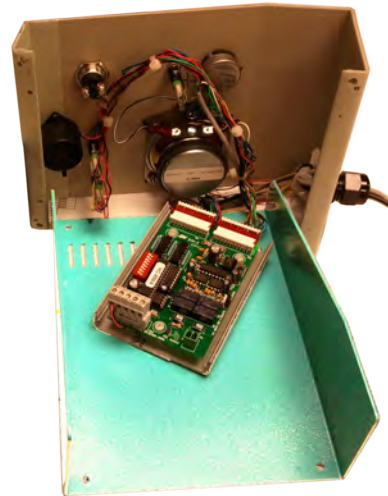
ETECH CONTROLS CORPORATION - MANUFACTURER

4051 ALVIS COURT #3, ROCKLIN, CALIFORNIA, USA 95677

TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

CT100 INTERCOM TURRET SERIES

DESK TOP INTERCOM CONTROL TURRET - TOUCH SCREEN



FUNCTIONAL DESCRIPTION:

The CT-100 SERIES INTERCOM MASTER TURRET's is typically used at Touchscreen locations as a control for remote INTERCOM STATIONS and page zones while occupying a minimum of counter space.

It is also used as an intercom Master and/or for door control

All models include:

45 or 8 OHM, 4 WATTS, 200 Hz to 8K Hz
Speaker, 2.5" SQ with tamper Grill

Electret microphone

Stainless steel "Push to Talk" pushbutton SPST

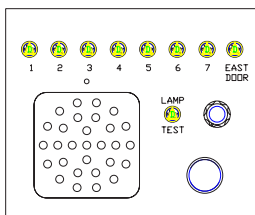
Tone Generator (may vary - Sonalert typical)

Aluminum Cabinet, base/sides .090", panel .063"

SIZE - 6"w x 7"d x 3.5"h

COLOR - panel -off-white, sides - blue

MASTERS include EAO19 series pushbuttons with LEDs



TYPICAL
CT-105M8

Models match the volume control requirements of various brands/models of amplifiers.

When using Secure-Tech's HC-0826 amplifier use turret CT105.

MODELS:

CT105 500 OHM 2 WATTS volume pot

CT106 100 OHM 2 WATTS volume pot

CT107 5K OHM 2 WATTS volume pot

CT108 10K OHM 2 WATTS volume pot

SUFFIX:

GN Gooseneck or hand held mic connector - D3F

F 1/4" standard PHONE JACK for a "talk-listen" foot

switch or hand-held microphone - on back

C Custom

M1 Single station Intercom Master

M4 Four station Intercom Master

M8 Eight station Intercom Master

M12 Twelve station Intercom Master

M16 Sixteen station Intercom Master

AVAILABLE IN EITHER 15 DEGREE OR 30 DEGREE SLOPE.

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MODEL HC-0856-MM

INTERCOM "Mini-Master" AMPLIFIER / CONTROLLER

FEATURES:

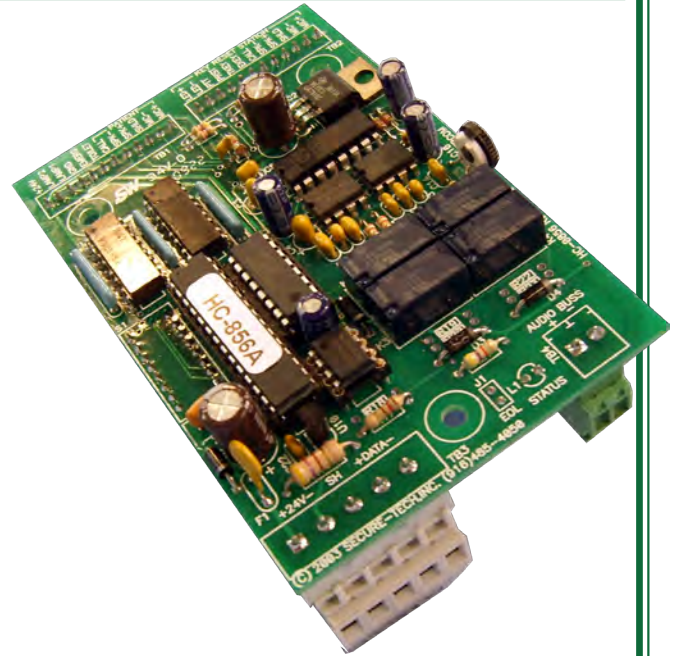
- 1.5 WATT RMS OUTPUT
- LOW NOISE LEVEL
- 8 FUNCTION / ALARM INPUTS
- (1) CALL-IN / SELECT LED
- 2 RELAY OUTPUTS (2A @ 30 VDC, FORM A)
- GROUND, SUPPLY AND SHORT SHORT PROTECTED
- THERMALLY PROTECTED
- LOW STANDBY CURRENT
- MOMENTARY OR MAINTAINED CONTROLS
- SERIALLY ADDRESSABLE - RS-485 MODBUS
- TOUCHSCREEN COMPATIBLE
- STANDBY / MUTE / "ANTI-POP" PTT
- UP TO 128 MINI-MASTERS PER 4000 FT DATA LOOP
- COMPACT DESIGN - 2.75" X 4.25"
- FULLY PLUGGABLE TERMINATIONS
- MICROPHONE INPUTS
- 2 YEAR WARRANTY

FUNCTIONAL DESCRIPTION:

The HC-0856 is a high quality, reliable Intercom System Amplifier and Controller. The HC-0856 "Mini-Master" was designed to function both as a stand-alone single station intercom master, as well as having powerful on-board processing, network and auxiliary utility control features for distributed use in larger networked applications, or for interfacing to centralized "Touchscreen Controls".

Due to its extensive on-board Audio and Security features, the HC-0856 Mini-Master is primarily used in Detention Facilities to fully control the high security intercom and safety requirements of Medical, Isolation and Holding Cells. On-Board features allow local Intercom Talk/Listen, Station Call-in and Answer Indications, Auxiliary Dome Light (utility) relay outputs, Auxiliary and Alarm Inputs. When in standby, the HC-0856 effectively "shuts" down reducing the possibility of noise or hum. All connections are pluggable for ease of installation and maintenance.

The HC-0856 Mini-Master can operate fully independently, or it can be a part of a large facility communications system. In



networked installations, each HC-0856 can "share" its local intercom station, or communicate itself directly with multiple other distributed or centralized Intercom Masters (HC-0856, HC-0644, HC-0682 Modules with or without Touchscreen interface). When in a networked configuration, any communication failure will cause the HC-0856 to switch to a stand-alone, fail-safe mode that will continue the uninterrupted operation of all local audio and control circuits until network communications are re-established.

The HC-0856 may be factory programmed for special applications, please give us a call if you would like to discuss a custom application design.

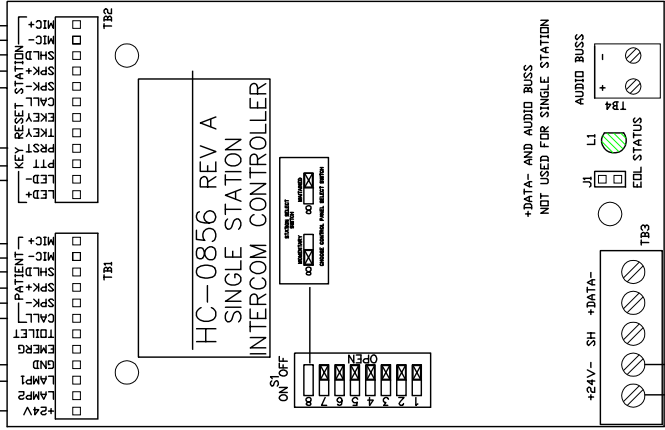
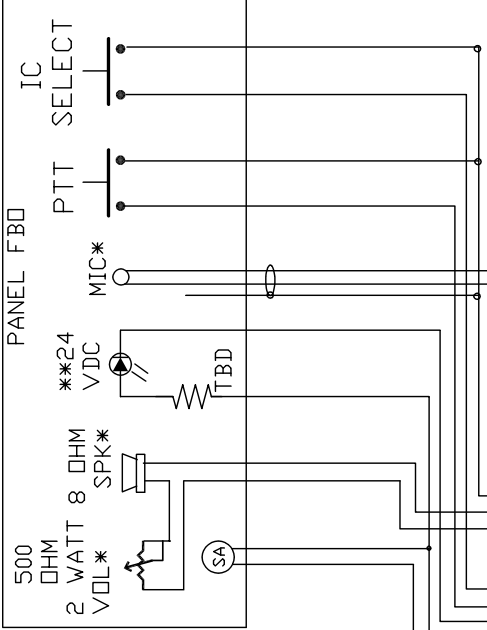
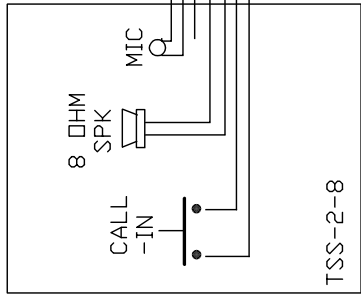
SIZE:

2.75" W x 4.25" L x 1.6" D
70 mm W x 108 mm L x 41 mm D

POWER:

17.5 - 30 VDC, 60 ma idle, 100 ma max

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SECURE-TECH MODULE
 STHC-0856, SINGLE
 STATION MINI-MASTER

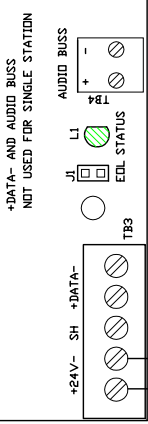
04/28/2011

ETECH CONTROLS CORP
 916-630-1300

**2 VDC LED HOOK-UP
 AVAILABLE - DECADE
 RESISTOR FBO

ALL PLUGGABLE
 CONNECTORS ARE
 PROVIDED WITH 10"
 PIG-TAILS

*AVAILABLE AS A KIT.
 SPEAKER, ELECTRET MIC,
 MIC HIDER,
 VOL CONTROL WITH KNOB
 ORDER NUMBER STLC-CP106



2.75" x 4.25"

24 VDC 100 MA
 REGULATED