

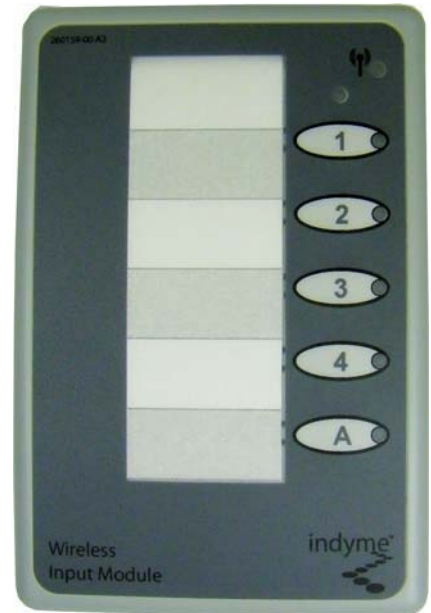
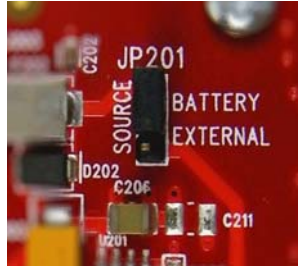
CB529A Programming and Installation Instructions

The CB529A is a special purpose, multi-function call box. It is designed for use as a director, shopper and/or external contact call box. The CB529A contains 4-inputs, each input can be configured for use as a normally opened or normally closed contact. The contacts can be configured individually or globally. The CB529A must be correctly configured and programmed to operate with external devices. Identify the quantity and types of circuits you will be using prior to beginning installation.

Call Box Jumpers

The CB529A requires +3VDC to operate. Power can be supplied via 2-C size batteries or an external +12VDC power supply. Using **JP201**, select the desired power source by placing the jumper over the two corresponding pins.

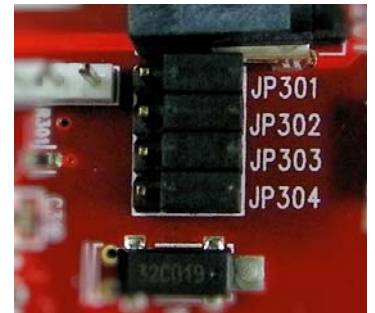
Removing the jumper or placing it on one pin of **JP201** will disable the call box.



The CB529A has 4-inputs, each input has a jumper used to assign the circuit type, normally opened (NO) or normally closed (NC). Using the jumpers labeled, **JP301- JP304**, set the circuit type for each input. Placing a jumper over both pins on the right, or removing the jumper, assigns a normally opened input. Placing a jumper over both pins on the left assigns a normally closed input. (The picture at right indicates all inputs configured for normally opened inputs.)

Call Box Programming

The CB529A uses a hierarchy based menu structure. Programming requires a series of button presses to access each menu. Using **button-1 to SET, button-A to RESET and the button-1 assurance LED**, program the following menu options.



Enter Programming Menu

Press and hold the **RESET** button (approx. 8-sec) until the assurance LED blinks once.

Press and hold the **SET** button (approx. 8-sec.) until the assurance LED blinks twice.

Press and hold the **RESET** button (approx. 8-sec.) until the assurance LED blinks three times.

Proceed to the desired menu.

Menu-1: Address Programming -used to assign an alarm address to a call box. The address will define which message(s) are broadcast when the call box is activated. The valid address range is from 001 to 999. Leading zeros are required. The default alarm for all call boxes is alarm-001. (Example: Alarm-107)

After entering the Programming Menu;

Press the **SET** button once, **RESET** once. The assurance LED will flash once to confirm your entry. You are now in Menu-1.

Enter your address as follows.

- Press the **SET** button once, **RESET** once to save. **(1)**
- Press the **RESET** button once to represent the zero. **(0)**
- Press the **SET** button seven times, **RESET** once to save. **(7)**

When the last digit is saved, the assurance LED will confirm your entry by flashing to indicate the digits entered. A zero is indicated by a long flash of approximately 1-second.
Call box buttons-2-4 are automatically assigned the next consecutive alarm numbers. They cannot be programmed independently.

Menu-3: Global Input Mode -used to assign operational characteristics to all inputs globally. The operational characteristics define how the call box will respond to button presses, input triggers and timing parameters.

After entering the Programming Menu;

Press the **SET** button 3-times, **RESET** once to save.

The assurance LED will flash three times to confirm your entry. You are now in Menu-3.

Press the **SET** button <1--6> times to select the Operating Mode, **RESET** once to save.

The assurance LED will flash to confirm your entry.

Menu-11: Individual Input Mode -used to assign operational characteristics to each input individually. The operational characteristics define how the call box will respond to button presses, input triggers and timing parameters.

After entering the Programming Menu;

Press the **SET** button 11- times, **RESET** once to save.

The assurance LED will flash eleven times to confirm your entry. You are now in Menu-11.

Press the **SET** button <1--4> times to select the input you are programming, **RESET** once to save. The assurance led will flash to confirm your entry.

Press the **SET** button <1--4> times to select the Operating Mode, **RESET** once to save.

The assurance LED will flash to confirm your input number, pause, then flash to confirm your Operating Mode entry.

NOTE: Operating Modes <5--6> are NOT valid for Individual Input Mode.
When Operating Modes <5--6> are set globally, Individual Input Mode is disabled.

Operating Modes

Mode-1: Alarm Notify Non-Latching

Basic alarm notification; compatible with "Shopper Call Box" alarm processing.

When any INPUT is activated, an alarm SET is broadcast and the corresponding LED will flash according to "LED Sequence 1". (Indicated below.)

When the INPUT is deactivated, an alarm RESET is broadcast and the corresponding LED will turn off.

Mode-2: Alarm Notify Latching

Basic alarm notification, response required;

When any INPUT is activated, an alarm SET is broadcast and the corresponding LED will flash according to "LED Sequence 1". (Indicated below.)

When the INPUT is deactivated, NO alarm RESET is broadcast. The corresponding LED will continue to flash until the front panel button is pressed.

Responding user must press the front panel button corresponding to the active INPUT to broadcast an alarm RESET and turn off the LED. If a front panel button is pressed when the INPUT is not active, (non-alarm), an alarm RESET is broadcast.

Mode-3: Alarm Reminder Non-Latching

Same as Mode 1 except, the alarm is re-started if the INPUT is not cleared. Periodically re-starts the alarm sequence for situations in which a persisting alarm condition may be overlooked (such as an alarm sequence that starts during unstaffed hours and does not self-clear). If alarm state persists more than XXX minutes (XXX specified by CU-based variable in the range of 15 to 999 minutes; default is 30 minutes), then repeatedly re-start this sequence from the beginning as a new alarm.

Mode-4: Alarm Reminder Latching

Same as Mode 2 except, the alarm is re-started if the corresponding front panel button is not pressed. Periodically re-starts the alarm sequence for situations in which a persisting alarm condition may be overlooked (such as an alarm sequence that starts during unstaffed hours and does not self-clear). If alarm state persists more than XXX minutes (XXX specified by CU-based variable in the range of 15 to 999 minutes; default is 30 minutes), then repeatedly re-start this sequence from the beginning as a new alarm.

Mode-5: Director Buttons Latching

Four Button Director Call Box; the four external INPUTS are disabled.

When user presses any of buttons 1 through 4, an alarm SET is broadcast and the corresponding LED will flash according to “LED Sequence 1”. (Indicated below.) Responding user presses the front panel button “A” (RESPOND) to clear all active alarm(s); an alarm RESET is broadcast and the corresponding LED(s) will turn off. If RESPOND button is not pressed within 10 minutes, the call box terminates “LED Sequence 1” and the alarm will timeout.

Mode-6: Alarm Notify & Director Latching

Provides a combination of External Inputs and Director Buttons:

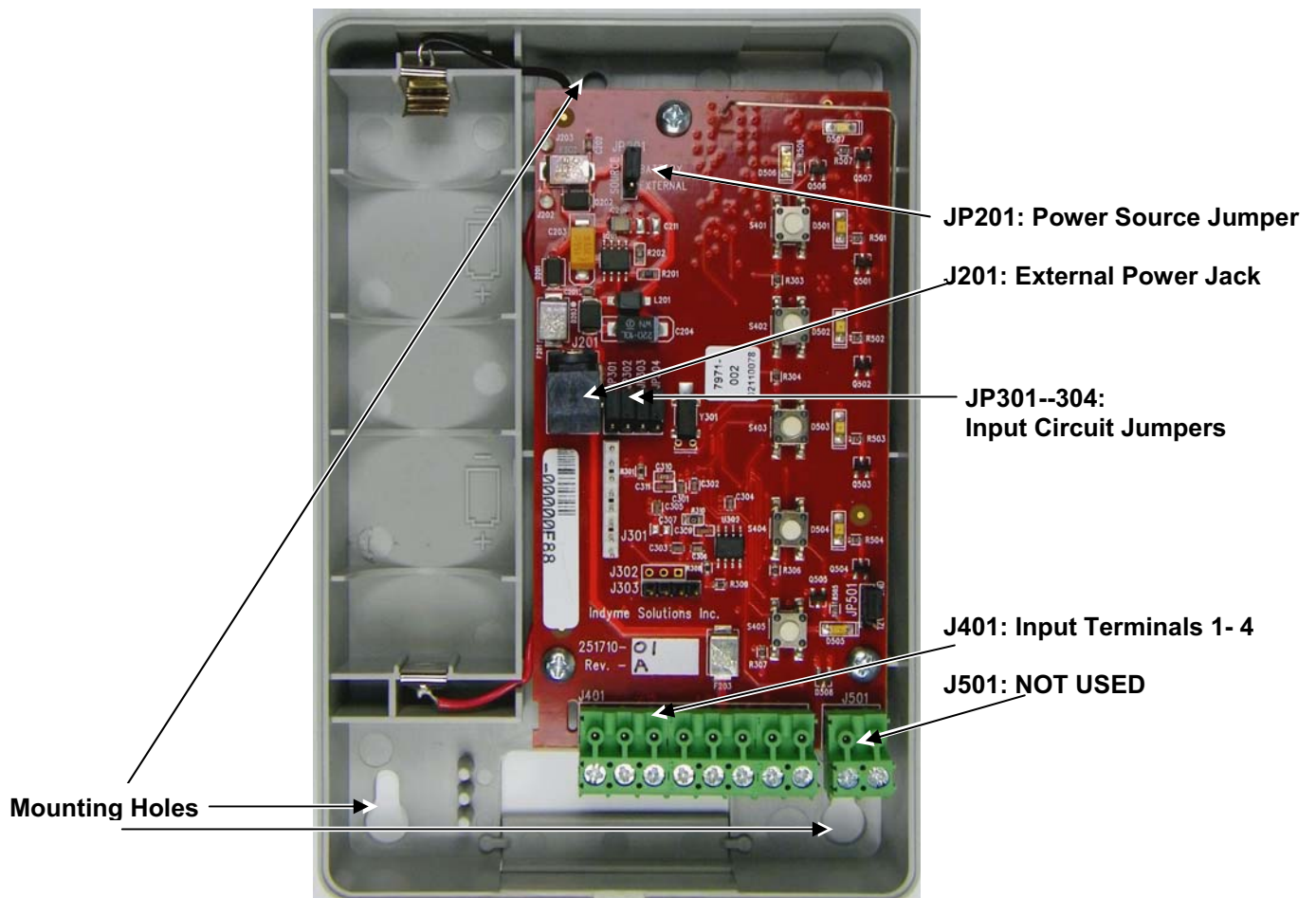
INPUTS 1 and 2 operate in Mode 2; the corresponding front panel button must be pressed to RESET. Buttons 3 and 4 operate in Mode 5; button “A” is used to RESET active alarms on Buttons 3 & 4.

LED Sequence-1

- LED lights solid for the duration that the input alarm exists for a maximum of 5 seconds.
- LED continues flashing rapidly for 2-minutes.
- LED continues flashing in short bursts indefinitely.
- LED ends the flash sequence with two long flashes, then extinguishes when:
Non-latching Operating Modes - the alarm condition clears.
Latching Operating Modes – when associated RESET is pressed, (if the input alarm condition is clear).

Wiring and Installation

Insure the call box is correctly programmed before installing wiring or mounting the call box. Install the two green terminal blocks onto the pins of J401 and J501 respectively. J401 contains 4-pairs of screw terminals corresponding to inputs 1-4. J501 has 1-pair of screw terminals, this connection is not used. Insert the wires through the hole in the back of the call box. Insert each wire into the corresponding input screw terminal; inputs 1-4, left to right. Secure the wires by tightening the screws. Verify the power jumper **JP201** is installed and the corresponding power source is installed/connected. Test the call box for proper operation before final installation.



Using the installation hardware provided, install the call box in a secure location. Ensure the wires are properly secured and will not pull out of the call box.

DO NOT MOUNT THE CALL BOX IN OR NEAR THE FOLLOWING;

- Moist or damp environments.
- Radio Frequency devices that may interfere with call box signals.
- Outdoors or exposed to outdoor elements.
- Excessive vibration which may cause wires to come loose.

FCC Notice of Compliance

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The user is cautioned that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with Industry Canada licence-exempt RSS standard(s). Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Class B statement:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.