



## Features

- Two-way Radio Communications
- UHF/VHF Applications
- Tone or Digital Coded Squelch
- DTMF ANI Reporting
- Handset and Push-button Models
- NEMA 3R Weatherproof Rating
- Vandal-resistant Design
- Wall, Pole or Flush-Mount
- 12 VDC Operation (Solar Power, Battery or External 12 VDC Power Options)
- Local Microphone and Speaker Level Adjustments
- Telephone Interconnect Access
- Internal Antenna (External Antenna Capable)
- 2 or 5 Watt Power Output
- Power Saver Feature
- PC Programmable



**Models:**  
CB193-001 (VHF)  
CB193-002 (UHF)  
CB193-003 (no radio)



**Models:**  
CB194-001 (VHF)  
CB194-002 (UHF)  
CB194-003 (no radio)



**Models:**  
CB195-001 (VHF)  
CB195-002 (UHF)  
CB195-003 (no radio)

## Applications

- Schools, Hospitals, Airports
- Parks, Pools, Golf Courses
- Entry Gates, Warehouses, Construction
- Security and Public Safety
- Sporting Events, Parades and Carnivals

**GAI-Tronics' RF Call Boxes** provide single button access to two-way radio systems. Housed in weatherproof, vandal-resistant enclosures, the RF Call Boxes are ideal for both public access and industrial applications. Both the Handset and Push-button versions allow the user to transmit and receive audio over a single UHF or VHF radio channel. To transmit, the user presses and holds the talk button while speaking into the unit or handset. When the button is released, receive audio is heard through the speaker or handset earpiece.

The GAI-Tronics **CB194 Series** Handset RF Call Box incorporates a push-to-talk button and noise-canceling microphone on the handset. It is ideal for applications requiring private conversation or areas with high ambient noise levels. The Handset model's vandal-resistant enclosure includes a latching door and Hytrell® handset cord. The **CB193 Series** Push-button RF Call Box is best suited to public access communications and features a highly visible yellow enclosure. The **CB195 Series** Push-button RF Call Box is ideal for flush-mounting in our Model 234 Stanchion or where aesthetics dictates a flush-mount installation.

Each Call Box features DTMF ANI reporting of Call Box location and low battery status. Each unit requires a 12 VDC source which can be provided via an optional solar panel, battery, or 12 VDC power supply. The Unit's RF modules are programmed for frequencies using the no. 19101-024 programming kit. The RF Call Box operating parameters are programmed using the CARD Suite software application.

All RF Call Boxes can be programmed for accessing a telephone line via our PL1877A Telephone Interconnect.

## RF Call Box Specifications

### Model CB193-XXX

Physical Dimensions ..... 9.50 H x 8.00 W x 3.86 D inches  
Material ..... Valox® (FV649 Reinforced Polyester)  
Shipping Weight ..... 4.5 lbs.  
Color ..... Yellow

### Model CB194-XXX

Physical Dimensions ..... 13.13 H x 9.39 W x 7.27 D inches  
Material ..... Valox® (FV649 Reinforced Polyester)  
Shipping Weight ..... 10.5 lbs.  
Color ..... Gray

### Model CB195-XXX

Physical Dimensions ..... 12.0 H x 10.00 W x 2.40 D inches  
Material ..... Panel: 14 gauge brushed stainless steel  
Back Box: 0.060 inch aluminum  
Back Box Cut-Out Dimensions ..... 10.1 H x 7.6 W inches  
Back Box (depth from mounting surface) ..... 2.38 inches  
Shipping Weight ..... 4.3 lbs.

### General

Temperature Range ..... -20° C to +60° C  
Weatherproof Rating ..... NEMA 3R  
Humidity ..... 95% non-condensing  
Audio Volume ..... -33 dB to +12 dB  
Push-to-talk Minimum Transmit Time ..... Factory set @ 4 sec. (adj. from 0-255 @ 0.125 sec. intervals)  
Push-to-talk Maximum Transmit Time ..... Factory set @ 20 sec. (adj. from 0-255 @ 1 sec. intervals)  
Stand-by Time ..... Factory set @ 10 sec. (adj. from 0-255 @ 1 sec. intervals)

### Power Requirements

#### Battery Back-up Kit, Model 190-001BB:

Voltage ..... 12 V dc  
Capacity ..... 1.3Ah  
Cycle Rating ..... 6 sec. transmit; 6 sec. receive; 10 sec. standby  
Battery Life ..... 300 cycles (over 7 day period)

#### External DC Power Source, Model 190-002PS

Voltage ..... Regulated 15.0 V dc  
Current ..... 2 amps

#### Solar Panel Output (at charge controller module)

Voltage (trickle charge) ..... 16.5 V dc

### RF Module

#### General:

Frequency Range ..... VHF: 154-174 MHz  
UHF: 450-470 MHz  
Antenna Impedance ..... 50 Ohms  
Operating Voltage ..... 8-15 V dc, 12 V dc nominal  
Encoder/Decoder ..... CTCSS tone, DCS digital  
Antenna Connection ..... BNC

#### Receiver (measurement procedures made per ANSI/TIA/EIA-603)

Sensitivity (12 dB SINAD) ..... 0.25  $\mu$  V  
Intermodulation ..... VHF @ -65 dB, UHF @ -60 dB  
Audio Output ..... > 700mW @ 13.8 VDC with < 5% THD

#### Transmitter (measurement procedures made per ANSI/TIA/EIA-603)

RF Output ..... 2 or 5 watts  
Spurious and Harmonic Deviation ..... <-20 dBm  
Modulation Sensitivity ..... 100 mV<sub>RMS</sub> @ 60% peak dev.

### Approvals

FCC Identifier ..... VHF: AIERIT17-142 UHF: AIERIT17-442  
IC Certification ..... VHF: I084A - RIT 17142  
UHF: I084A-RIT 17442

## Accessories

40201-004	Battery, 1.3 Ah	190-002PS	WPF. Power Supply Kit, 15VDC	SPK100	Solar Panel Kit, 5W (Includes panel)
40201-008	Battery, 1.8 Ah	19101-024	Programming Kit, RF Module	SPK200	Solar Panel Mtg. Kit
40408-009	Battery Charger for 40201-004 Battery	XAC1000A	CARD Suite Programming Software	GTRFP7784-108	Solar Panel Array, 30W
40408-011	Battery Charger for 40201-008 Battery	XAC0004A	Programming Cable (Call Box)	230-001	Pole-Mount Kit for CB194 Series
190-001BB	Battery Back-up Kit, 1.2 Ah	XB001	Long-life Battery Enclosure	231-001	Pole-Mount Kit for CB193 Series
				233-001	Tamperproof Screwdriver



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Quality Management Systems Certified - ISO9001:2000

The policy of GAI-Tronics is one of continuous improvement, therefore the company reserves the right to change specifications without notice

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