GAI-TRONICS
A Hubbell Company

RF Call Box

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
- External Antenna Required
- 2 or 5 Watt Power Output
- Power Saver Feature
- PC Programmable

Applications

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

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

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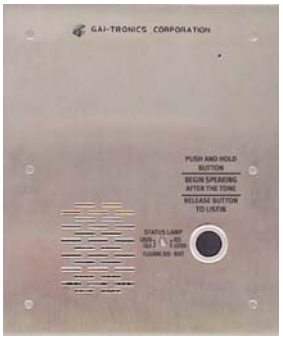
CB194-003 (no radio)



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

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 Hytrel® 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 μ 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_{RMS} @ 60% peak dev.

Approvals

FCC Identifier	**VHF**: AIERIT17-142 **UHF**: AIERIT17-442
IC Certification	VHF: 1084A - RIT 17142 UHF: 1084A-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, 18 Ah	19101-024	Programming Kit, RF Module	SPK200	Solar Panel Mtg. Kit
40408-009	Battery Charger for 40201-004 Battery	XAC4000A	Programming Bundle	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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