

# 4500 Series Base Station Receiver

- Compact and Lightweight
- Low Power Consumption
- Internal Speaker
- Includes VHF/UHF Data Transceiver



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### DESCRIPTION:

The 4500 Series Base Station Receiver accepts transmitted data from field transmitters or repeater stations. It is small and lightweight for convenient placement close to the antenna, and is powered by Model 5603-00 float charger. (As an option, the Model 5608-00, 12 Volt, 2.3 Amp Hour Battery is recommended for uninterrupted power.)

The 4500-02 has an internal speaker with an on/off switch located on the front panel. This speaker allows the system operator or technician to hear the

quality of the data signals. Equally important, the speaker is capable of revealing radio interference present on the system frequency.

The 4500 Series of Base Stations include a choice of VHF or UHF data transceiver, which is tuned to a specific frequency. The audio output of the receiver is connected to the Model 1000-03 ALERT Decoder.

### SPECIFICATIONS:

Frequency Range	UHF 470 to 490 MHz, or VHF 148 to 174 MHz
Sensitivity	0.25 $\mu$ V minimum @ 12 dB SINAD
Frequency Stability	$\pm$ 2.5 ppm
Selectivity	60 dB minimum @ 12.5 KHz
Noise Squelch	1 to 0.35 $\mu$ V adjustable
Spurious Rejection	7 dB minimum
Image Rejection	70 dB minimum
Inputs	RF (VHF or UHF)
Outputs	Audio is set for 700 mV pp @ system deviation
Output Connector	1/8 inch stereo phone jack
Impedance	600 ohms
Operating Voltage	~12VDC ( 300 mA charger is included)
Current Draw	Active < 220 mA; standby 50 mA
Enclosure	Aluminum box w/external connectors (BNC, screw Terminals, 1/8 inch Phone Jack)
Operating Temperature	-22° to 140° F (-30° to 60°C)
Dimensions	2.1 x 6.4 x 8.4 in (5.3 x 16.3 x 21.3 cm) (H x W x L)
Weight	2 lbs (0.91 kg)
Shipping Weight	3 lbs (1.36 kg)

02-4500-00(B)

*Environmental Monitoring Solutions*

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## Model 4500 Base Station Receiver

### ORDERING GUIDE:

Model 4500-02. ....	ALERT Base Station Receiver; Includes VHF Data Transceiver, Float Charger, 5 ft (152.4 cm) Audio Cable, and Battery Cable Set. Radio Freq: VHF 148 to 174 MHz.
Model 4500-04. ....	ALERT Base Station Receiver; Includes UHF Data Transceiver, Float Charger, 5 ft (152.4 cm) Audio Cable, and Battery Cable Set. Radio Freq: UHF 470 to 490 MHz.
Model 4500-05. ....	ALERT Base Station Receiver; Includes VHF Data Transceiver, 2 Channel External Select Switch, Float Charger, 5 ft (152.4 cm) Audio Cable, and Battery Cable Set. Two Channel External Select Switch. Radio Freq: VHF 148 to 174 MHz.

### OPTIONS/SPARE PARTS:

Model 1000-03. ....	ALERT Decoder; Includes Float Charger with 6 ft Cable, 3 ft (91.4 cm) Battery Cable, 6 ft (1.83 m) 9-Pin Serial Cable.
Model 5608-00. ....	Battery; 12 Volt, 2.3 Amp Hour

See [www.highsierraelectronics.com](http://www.highsierraelectronics.com) for more specification and ordering information.