

# MODEL 3300

## Programmable Store & Forward Repeater

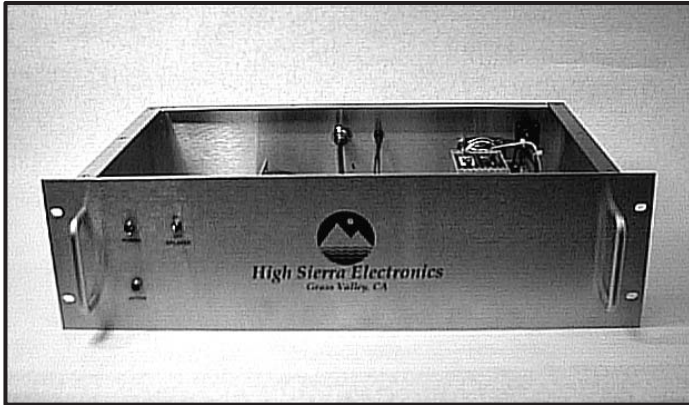
- Field Programmable
- Echo Suppression For Single Frequency Systems
- Digital Noise Suppression Of Extraneous Signals
- Self Reports It's Battery Voltage
- Optional Sensor Inputs



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089



### DESCRIPTION:

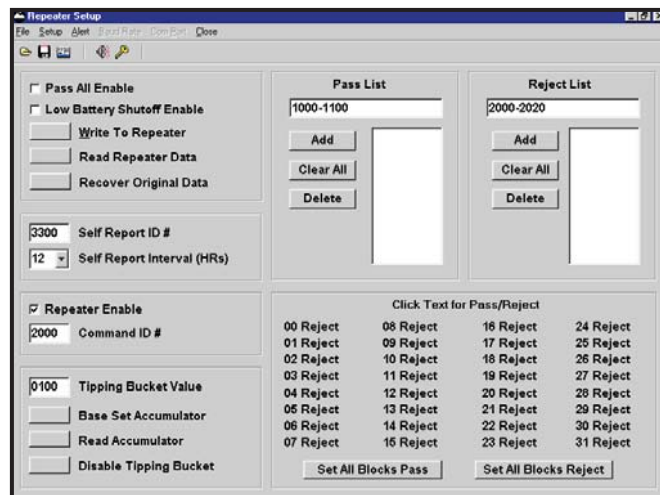
Repeaters are one of the key components of an ALERT/IFLOWS data collection network. Often an entire network or a significant portion of the system's gauges report through a single repeater. Given the critical nature of the role the Repeater plays in a system, High Sierra Electronics has always paid particular attention to repeater applications to insure system integrity. Over the years we have incorporated innovations to our repeater such as **Echo Suppression** which eliminates the "ping pong" or echo affect that could be a problem in some systems. The New Model 3300-00 includes Echo Suppression as a standard feature.

The 3300-00 can be supplied in a rack mount case for rack or wall mounting, or optionally in a NEMA 4 enclosure for installation in a standpipe. The speaker, speaker switch, external reset, and external LED's are not available with the NEMA 4 option.

### User Programmable

The field technician can alter the Model 3300-00 configuration parameters in just minutes on-site with a laptop utilizing a Windows based set-up screen. These parameters include: Status Report ID and report interval, Command ID for remote control activation or de-activation of the Repeater and the Pass/Reject IDs. This in-field programming capability saves time and site visits for the field technician.

The Model 3300-00 can be programmed to pass all valid ALERT/IFLOWS IDs, pass or reject blocks of IDs and/or pass up to 255 individual IDs and reject up to 255 individual IDs.



The Programming Screen

*See next page for Specifications, Ordering Guide, and Options*

02-3300-00(C)

Environmental Monitoring Solutions

WEB SITE: [www.highsierraelectronics.com](http://www.highsierraelectronics.com) E-MAIL: [info@highsierraelectronics.com](mailto:info@highsierraelectronics.com)

# MODEL 3300

## Specifications & Ordering Guide



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS

FAX: (530) 273-2089

An optional precipitation input allows the connection of a Rain Gauge. The software will allow the setting of an initial value for the precipitation accumulator and to enable/disable the precipitation input.

### Duplex Mode

An optional duplex mode adds a second radio to the repeater and the associated electronics. This enables the repeater to continue to receive while messages are being transmitted. To prevent feedback from the transmit antenna to the receive antenna, a minimum frequency separation must be 2MHz between the receive and transmit frequency.

### Remote Control of Repeaters

An Optional feature of the 3300-00 allows remote control of the repeater from the base station. This command capability allows for remote activation or de-activation of a repeater. This command signal capability can also be applied in applications where a back up or standby repeater is desired. If the primary repeater stops reporting, a signal can be sent from the base station to activate the standby repeater. This feature can minimize system downtime in the event of a repeater failure.

### Status Reports

Repeater status reports containing battery level can be set by the user at intervals from two to twenty four hours. This allows the base station software to monitor repeater operation and issue an alarm if status reports are not received or if battery levels drop below an acceptable level or at an unacceptable rate.

### Digital Filtering - Improved performance in noisy environment

There are times when Repeaters must be installed in the midst of mountain top antenna farms with a great deal of other radio equipment operating in close proximity. This equipment at times includes high power transmitters such as TV Broadcasting and NWS Weather Radio. A digital filtering process enables the repeater to pick out valid ALERT/IFLOWS data out of noise even with a completely unquieted radio.

### SPECIFICATIONS:

RF Range . . . . .	VHF 136 - 174 Mhz, other bands available
Programming . . . . .	Pass or Reject Specified ID Numbers or Blocks of Numbers
Data Format . . . . .	ALERT Binary Standard; Enhanced IFLOWS Format
Temp Range . . . . .	-40°C. to +50°C.
Enclosure . . . . .	Rack Mount (NEMA Fiberglass Optional)
Connection Types . . . . .	Solar or AC Back-up Power (3-Pin MS type, BNC, Antenna)
Power . . . . .	12VDC @ 90mA (may vary w/different radios) 1.5 Amps when transmitting
Battery . . . . .	2ea., 12 Amp 12 Volt DC
Rack Mount Size . . . . .	5.25"H x 19.0"W x 11.75"D
NEMA 4 Size . . . . .	15.75"H x 9.875"W x 4.875"D
Weight . . . . .	28 Pounds
Shipping Weight . . . . .	31 Pounds

*NOTE: Radio & Battery are warranted by the Original Manufacturer.*

### ORDERING GUIDE:

Model 3300-00 . . . . .	Store & Forward Repeater w/Transceiver; NEMA 4X Enclosure. (please specify frequency)
Model 3310-00 . . . . .	Store & Forward Repeater w/ Transceiver; Rack Mount Enclosure. (please specify frequency)

### OPTIONAL:

Model 3300-01 . . . . .	Sensor Input Option
Model 3300-09 . . . . .	Remote Control Capability
Model 3300-10 . . . . .	Chassis w/RF Coating & Conductive Gasket
Model 3300-11 . . . . .	Antenna Switch (for Dual Antenna Site)
Model 3300-20 . . . . .	Duplex Repeater; NEMA 4X Enclosure
Model 3801-00 . . . . .	Power Amplifier (VHF)
Model 7200-00 . . . . .	Lightning Protection Device

02-3300-00(C)

*Environmental Monitoring Solutions*

**WEB SITE: [www.highsierraelectronics.com](http://www.highsierraelectronics.com) E-MAIL: [info@highsierraelectronics.com](mailto:info@highsierraelectronics.com)**