

ALERT2

Data Transmitter

MODEL 3306-02/3316-02

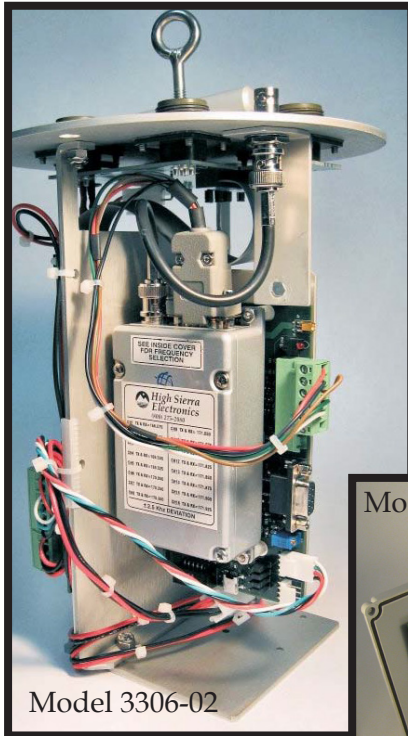
- Forward Error Correction
- Full Engineering Values
- TDMA Reporting Eliminates Collisions
- Works Side-by-Side with Standard ALERT



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS, INC.

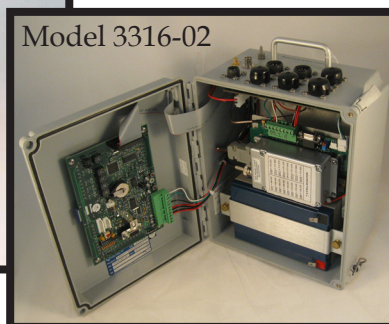
FAX: (530) 273-2089



Model 3306-02

ALERT2 BENEFITS:

- Send more data with a shorter messages by utilizing the faster baud rate.
- Exceptional system data throughput even during extreme weather events.
- Accurate data with the use of full error detection and forward error correction. (*Good data or no data*)
- Synchronize rain reports based on the use of Time Division Multiple Access (TDMA).



Model 3316-02

- Increases the number of station and sensor identifiers.
- Receive rich information to full engineering values and unlimited message content.

DESCRIPTION:

ALERT2 is the next generation data format for Hydological and Meteorological Data Collection Systems. Utilizing faster baud rates for transmission, more data can be sent in shorter messages. This increase in data capacity allows for the transmission of field data in calibrated, floating point engineering units, and also provides a tremendous increase in the number of available Station IDs. Another significant advancement offered by ALERT2, is the ability to assign TDMA (Time Division Multiple Access) time slots for each transmitter and repeater ensures exceptional system data throughput even during extreme weather events. This report scheduling capability is possible due to the precise timekeeping enabled by the onboard GPS Receiver. The increased message capacity of ALERT2 also allows for the inclusion of Forward Error Correction to help minimize transmission errors that can occur over noisy channels.

The Model 3306-02/3316-02 is programmed using the included Insight Software. When Insight is opened, there is a box to check on the opening page if the transmitter being programmed is an ALERT2 unit. By checking this box, the additional programming options such as TDMA timing features become available.

From its inception, the development of ALERT2 has included a transition path that would allow an existing ALERT system to migrate over time to ALERT2. The data transmitter can receive ALERT and retransmit ALERT2 concentrated messages. See your local Sales Representative for more details.

Model 3306-02 is housed in an aluminum enclosure and Model 3316-02 is housed in a weather resistant enclosure.

02-3306-02(D)

Environmental Monitoring Solutions

WEB SITE: www.highsierraelectronics.com E-MAIL: sales@highsierraelectronics.com

Model 3306-02 / 3316-02 Data Transmitter

SPECIFICATIONS:

Sensor Inputs	..... Analog, 2 Precipitation, 2 Shaft Encoder, 2 SDI-12, Wind. Battery voltage and Wind Gust (if wind sensor is enabled) are internal sensors which use one of the available analog inputs)
Total Number of Sensors	..... Up to 20
Analog Resolution	..... 12 bits (0.0012V)
Sampling Interval	..... 0 seconds to 18 hrs. programmable
Reporting Modes	..... Timed-defined and/or event
Reporting Interval	..... 0 seconds to 596523 hrs. programmable
Event Change to Report	..... 0 to 65535 counts
Reporting Override Value	..... 0 to 65535 counts
Data Logging Modes	..... Timed-defined and/or on transmission
Data Logging Interval	..... 0 seconds to 596523 hrs. programmable
Data Format	..... ALERT2 Binary Standard
Recorded Data	..... Integer or floating point
Record Size	..... 9 bytes/record (integer sensor type) or 11 bytes/record (float sensor type), 1 file per month containing all sensors
Memory	..... 16 GB SD Card
Real Time Clock	..... Clock/Calendar w/ on-board Battery Back Up w/Leap Year Correction, Syncs with GPS.
Transmission Baud Rate	..... 4800
TDMA	
Slot Size	..... Selectable: 0.5, 1, 1.5, 2.5, 3, and 5 Seconds
Frame Size	..... Selectable: 15, 30, 45, 60, 90, and 120 Seconds
On-Board GPS Receiver	
Sensitivity	..... <-163 dBm
Channels	..... 48
GPS Connector	..... Reverse SMA Female
Radio Frequency Range	..... VHF 136 to 174 Mhz @ 5W, UHF and other bands available
Operating Voltage	..... 12 to 18 VDC
Current Draw	..... < 3 A Transmitting, < 1.8 mA Standby
Battery	..... 12 VDC, 12 Amp hour
Lightning Protection	..... Standard on all inputs
Antenna Connector	..... BNC
Operating Temp. Range	..... -40° to 140° F (-40° to 60° C)
Storage Temp. Range	..... -58° to 158° F (-50° to 70° C)
Warranty	..... 3 Years from date of shipment

ORDERING GUIDE:

	3306-02	3316-02
Analog Inputs	6	8
Input Connectors	MS	MS
Enclosure	Aluminum Canister	Fiberglass Water Resistant
Dimensions	7 x 17 in (17.8 x 42.2 cm)	12 x 14 x 5.5 in (30.5 x 35.6 x 14 cm)
Weight	9 lbs (4.1 kg)	15 lbs (6.8 kg)
Estimated Shipping Weight	10 lbs (4.5 kg)	20 lbs (9.1 kg)

See www.highsierraelectronics.com for more specifications and ordering information.

02-3306-02(D)