

3200 Series ALERT Data Transmitter

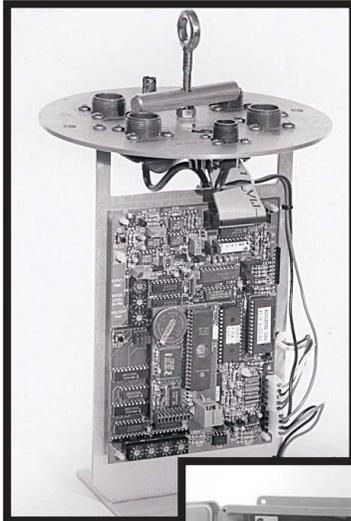
- Reliable, Highly Accurate Data
- Easy Field Set-up without a Computer
- Universal Water Level Shaft Encoder Selection
- Digital Stilling Well Dampening



PHONE: (800) 275-2080

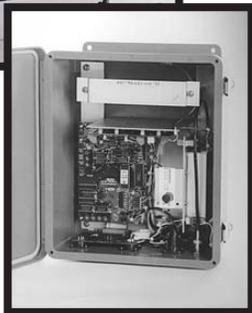
HIGH SIERRA ELECTRONICS, INC.

FAX: (530) 273-2089



DESCRIPTION:

The 3200 Series of ALERT Data Transmitters are a versatile line of compact, full featured telemetry devices designed to meet the most rigorous hydrological and meteorological applications. No laptop computer terminals, optional analog cards or connector packages are required. Standard features include: VHF or UHF Transceiver, 11 Bit analog interface, sealed lead acid battery, connector compatible with third party hardware (i.e., Sierra Misco 5050 & sensors) and a water resistant canister or weather resistant NEMA enclosure. To put the data transmitter into operation, you simply set the switches/jumpers, plug in the sensors and antenna cable, and connect the battery.



The analog interface includes an industry first 11-Bit (1 part in 2048) resolution. A pressure transducer with a 20 ft (6.1 m) span will have a resolution of 0.01 ft. On the Model 3206-00, 4 single ended 0 to 5 VDC inputs or 2 single-ended and 1 differential inputs are possible. In addition, a battery sensor constitutes a 5th analog input. Any of the 5 inputs may be disabled by installing a jumper. The Model 3206-08 option replaces the second digital input with a 6-pin input that accepts the standard Handar Model 585 precip/ solar/ shaft encoder connector. The Model 3206-01 Wind Connector option adds another analog input.

The Model 3208-01 is similar to the 3206-00, but includes either 8 single-ended 0 to 5 VDC inputs or 6 single-ended and 1 differential input. Any of the 8 analog inputs may be disabled by installing a jumper.

Digital dampening of noisy wells is accomplished with the use of the HOLDOFF TIME and the WATER LEVEL ALARM OVERRIDE switches. The HOLDOFF TIME switch allows transmission of incremental water level reports only at fixed intervals unless a change has occurred that is greater than or equal to the setting of the override switch. Then the HOLDOFF time is ignored and the transmission is sent anyway. The resolution of the shaft encoder is not affected by the settings of these switches. Three different incremental shaft encoders can be accommodated by simply changing a jumper.

The Models 3206-00 and 3208-01 come with several other features for improved maintenance at remote sites. Pressing both TEST and RESET at the same time will power the radio continuously, which simplifies power output measurements. Pressing TEST powers up all the analog section continuously, while releasing TEST will cause the enabled sensors to be read and transmitted. A battery saving feature disables transmissions if the voltage drops below 10.5 VDC protecting the battery from deep discharge situations.

02-3200-00(B)

Environmental Monitoring Solutions

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

3200 Series ALERT Data Transmitter

SPECIFICATIONS:

Inputs	Analog Inputs, either all single-ended 0 to 5 VDC or 2 single-ended & 1 differential input w/adjustable signal conditioning, user selectable.
Radio Range	VHF 136 to 174 MHz @ 5W UHF and other bands available.
Transmission Modes	Incremental inputs are on an EVENT basis.
Analog Sensor.	Modes are either timed or timed event.
Timed	5, 10, 15, 20, 30, 45 minutes or 1, 2, 3, 6, 12 hours
Timed Event	Sensors scanned every 1 minute. The change in sensor value from the previous transmission is required to initiate a transmission is either 0.05%, 0.25%, 0.5%, 1%, or 2% of full scale. (A report is also sent every 12 hours on timed event sensors.)
Holdoff.	Holdoff time for all transmissions is 20 seconds so that a single 3200 Series Transmitter will transmit no more than every 20 seconds. The hardware circuit will disable the radio after 5 seconds of on-time. When the battery drops below 10.5 V RF transmissions are disabled.
Programming	Manual jumpers/rotary switches
Data Format	ALERT binary standard
Storage Temperature	-58° to 158° F (-50° to 70° C)
Operating Temperature	-40° to 140° F (-40° to 60° C)
Antenna Connector	BNC, (3208 has screw terminals)
Lightning Protection	Standard on all inputs
I.D. Number Range	0 to 8191, Switch selectable
RF Warm-Up Time.	Jumper selectable to 180, 250, 320, or 390 milliseconds
Power	12 VDC @ 250 μ A, Solar panel connection standard.
Battery	12 VDC, 12 Amp hour
Warranty	3 Years from date of shipment

ORDERING GUIDE:

	3206-00	3208-01	3216-00	3216-02
Analog Inputs	4	8	4	16
Up Only Counting	1	1	1	2
Up/Down Counting	1	1	1	2
Input Connectors	MS	Terminal Strip	MS	MS
Enclosure	Aluminium Canister	Fiberglass Weather Resistant	Fiberglass Weather Resistant	Fiberglass Weather Resistant
Dimensions	7 x 22.25 in (17 x 57 cm)	12 x 10 x 4 in (31 x 25x 10 cm)	12 x 10 x 4 in (31 x 25 x 10 cm)	14 x 12 x 8 in (36 x 25 x 20 cm)
Weight	9 lbs (4.1 kg)	15 lbs (6.8 kg)	15 lbs (6.8 kg)	19 lbs (8.6 kg)
Shipping Weight	10 lbs (4.5 kg)	20 lbs (9.1 kg)	20 lbs (9.1 kg)	24 lbs (10.9 kg)

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

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