

Model H-222-SE High Data Rate GOES Radio



The **WATERLOG[®]** H-222-SE GOES Radio links up with the H-350, H-350XL, H-510, H-500, and H-500XL allowing any of the sensor readings to be transmitted over the GOES Radio system. The H-222-SE GOES Radio may be added easily to existing H-350, H-350XL, H-500, H-500XL, and H-510 sites.

KEY FEATURES

- Menu driven setup interface using the H-350, H-350XL, H-510, or H-500, H-500XL
- Self-timed and random transmissions
- Configuration Query allows examination of set-up parameters
- Low standby power
- Binary or ASCII data format
- Selectable data order
- Ability to transmit different data than what is logged to the FLASH Card
- Extensive built-in software
- Configuration and Control implemented by external device via RS-232 interface
- User programmable data rates of 100 BPS or 300 BPS for the SE300 or 100BPS, 300BPS or 1200BPS, for the SE1200
- Time of day query retrieves GPS time from transmitter for time management of other terminal devices/sensors



SPECIFICATIONS

Frequency Coverage

SE300 and SE1200
100 and 300 BPS: GOES Domestic Channels (1-199)
100 BPS: International Channels (202-266)

SE1200 Only
1200 BPS: HDR Domestic Channels (1-100)

Frequency Stability

Over Temperature: ± 0.4 PPM
Long Term: ± 1 PPM (including temperature)
Frequency Setting: To an accuracy of 1 Hz under software control

Output Power

SE300: 10 Watts (nominal) Linear
SE1200: 12.5 Watts (nominal) Linear
Output Dependence: 50 Ohms, short and open circuit protected
Interface: RS-232
Time Keeping: <0.5 seconds with embedded GPS Receiver

DC Power Input Voltage: 12 ± 1.8 V

Environment

Humidity: 90% non-condensing
Temperature Range:
-Operating: -20 to +50EC (-40 to +122EF)
-Storage: -55 to +75EC (-67 to +167EF)

Current

Quiescent: <6mA (typical)
Transmit: <2.75 A

Mechanical Data

Enclosure: Sealed, corrosion resistant fiberglass case
Size: 7.0 in. wide x 8.5 in. long x 4.3 in. deep
Weight: 3.5 lbs.
Mounting: Hardware supplied for wall mounting

Miscellaneous

Certification

NOAA/NESDIS certified for self-timed and random GOES transmissions

Warranty

The **WATERLOG**[®] H-222-SE is warranted against defects in materials and workmanship for one year from date of shipment.

Note

Specifications subject to change without prior notice due to on going commitment to product testing and improvement. May, 2001



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