



A tracking receiver for antenna step tracking and automatic uplink power control! The Models 3430-L, LD, LF, and LW are fully frequency agile satellite receivers designed to provide a linear DC reference voltage proportional to the received signal level of a satellite beacon or narrow-band SCPC carrier. Frequency selection on 10 kHz steps may be accomplished from the front panel or remote control. Pre-detection noise bandwidth of 50 kHz facilitates accurate tracking at very low C/N levels.

• **New Release Version 3 Firmware Features:**

- RS-232 / RS-485 are both included and selected via front panel menu options.
- Available baud rates of 1200, 2400, 4800, 9600 and 19200 are selected via front panel menu options.
- Extended RS-485 addressing range of hexadecimal 01 - FF.
- Remote Port polling active in Local Mode.

**Valid Options**

*AFC and Filtering*

0 = Standard AFC and Standard 0.4 Hz output smoothing filter.

A = No AFC – Use for tracking Wide Data Carriers. Standard 0.4 Hz output smoothing filter.

S = No AFC and No 0.4 Hz output smoothing filter.

T = No 0.4 Hz output smoothing filter. Standard AFC.

*Bandwidth*

0 = 50 kHz pre-detection bandwidth.

5 = 25 kHz pre-detection bandwidth.

*Input Connector on Rear of BTR*

0 = Standard input connector is type 75 ohm F-female.

N = 50 ohm N female connector.

B = 50 ohm BNC female connector.

Q = 50 ohm TNC female connector.

**Features**

- The output of the Beacon Receiver is a DC voltage proportional to the input signal level to facilitate both tracking control and automatic power control. A Loss of Carrier indicator is provided in the event the tracking signal is lost. Form "C" relay contacts provide external Loss of Carrier Alarm. A front panel VFD displays operating frequency, relative signal level, carrier lock or alarm and input level.
- **Specifications**
- Input Frequency
- 3430-L: 950 - 1800 MHz
- 3430-LD: 930 - 1800 MHz
- 3430-LF: 930 - 2050 MHz
- 3430-LW: 950 - 2050 MHz
- Input Level: -30 to -90dBm typical
- Tracking Slope: 0.5 V/dB
- Tracking Linearity: 0.25 dB
- Frequency Selection: 10 kHz steps
- Min. input level for Lock: -110dBm
- Input Connector: Type "F" Female, 75 ohm
- Threshold: 4 dB C/N for acquisition, < 1 dB C/N for carrier lock
- Tracking Response: 0 to +10VDC over 20 dB input range
- Alarms: Form-C relay contacts
- AFC:  $\pm 25$  kHz
- Noise Bandwidth: 50 kHz
- **MECHANICAL:**
- Output Connector: Modular socket & plug
- Dimensions: 1 RU, 19" x 16" x 1.75"
- **POWER:**
- Prime Input Power: 90-260VAC, 47-63 Hz, auto-sensing, 45 Watts max
- Optional DC Power: Contact Vincor™ Sales for availability
- LNB Power: +24 Volts @ 1 Amp available on center conductor, Selectable In/Out



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