APPLIED INSTRUMENTS

Application Note
11/12/2010

Installing **Ku Band VSAT** with Super Buddy™ satellite meter

Connections: LNB connected to top (SIGNAL IN) port of Super Buddy meter with coax cable.

Meter set-up
Press the **SYST** System soft-key (located near top left corner of LCD screen) to enter the System Setup menu. Then select the following:
- REGION   your geographic region
- SERVICE   **Generic Ku Band**
- SYSTEM   Selection based on the style of your LNB (most likely **H/V Sngl Pol LNB**)
- LNB MODEL   **LO= 10.75 11.7-12.2** (LO 10.75 GHz is most common in North America, but you may choose other LO options if applicable to your LNB)
- SWITCH TYPE   defaults to **none**

*To make selections, arrow up or down to the item to change and press **Enter**, then arrow up or down to the desired option and press **Enter**. Press **EXIT** or **DONE** to return to Run Mode*

Antenna Pointing

Install the mast plumb, preset the antenna vertical angle, mount to mast and grossly align azimuth. You may want to use the ZIP zip code look-up feature to obtain rough antenna settings.
- Use left / right arrow keys to select the desired satellite (orbital position displayed in upper left). Refer to your service paperwork to know which satellite to aim dish at.
- Press the **ZIP** zip code soft-key, punch in the local zip code, and press **ENTER**. Approximate antenna settings will be displayed. Press **EXIT** soft-key to return to the main Run screen.

Run Mode
- Select the vertical or horizontal receive polarity (**VT** or **HZ**) with the upper right soft-key. Refer to your service paperwork to know which receive polarity to choose.
- Press **LNB** soft-key (located on middle right side of LCD screen) to power the LNB.

After selecting the satellite, receive polarity and pressing the **LNB** soft-key to power the LNB:
- Adjust antenna azimuth and elevation to obtain maximum signal level (left bar graph), signal quality (right bar graph), and LOCK status.
- Rotate the LNB and feed horn assembly (adjusting the polarization offset) to maximize signal level and quality.
- Press the **ID** soft-key to verify the satellite. "ID VERIFIED" means you are pointed correctly.
- If "ID FAILED" is displayed, press **SCAN** soft-key and Super Buddy will find which satellite you are aimed at.
- If desired, you may also use Up/Down arrow keys to scroll through other transponders to check for proper level and quality.

Other Notes:
-It is NOT recommended to keep Super Buddy meter in line while checking IRD/receiver/modem status due to attenuation from our circuitry.