Point Six , Inc.

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Dear Mr. Curtis:

The Texas Weather Instruments wireless weather station transmits a 45-50 millisecond packet once each 15-16 seconds. The packet consists of transmitter-on/transmitter-off timing that represents the weather data. The duty cycle is approximately 50%. The packet time can vary with data content between 45-50 milliseconds. The packet data is controlled by a microprocessor whose timing is based on a ceramic resonator that is very stable. The packet below (figure #2) illustrates a typical data packet, the worst case, 50 milliseconds, cannot be shown because a great many real weather variables would need to be forced to make this so. Figure #1 illustrates the overall timing; a packet is sent each 15-16 seconds.

The battery used during the tests was new and custom packaged by CarGo Battery Co. The battery is a 6 Volt BR Lithium chemistry, which has a flat discharge curve from new to about 90% used. In this application the battery requires about 7 years to discharge to the point that it cannot be used. The battery was used for no other purpose and had operated in the test unit for only a few days when the test was performed.

Figures #3 and 4 below illustrate the antenna coaxial cable and the soldered direct connection (no connector) to the PC board of the TWI wireless weather transmitter. The antenna is a Linx Technologies model ANT-418-PW-QW.

John I. Compton
President, Point Six, inc.

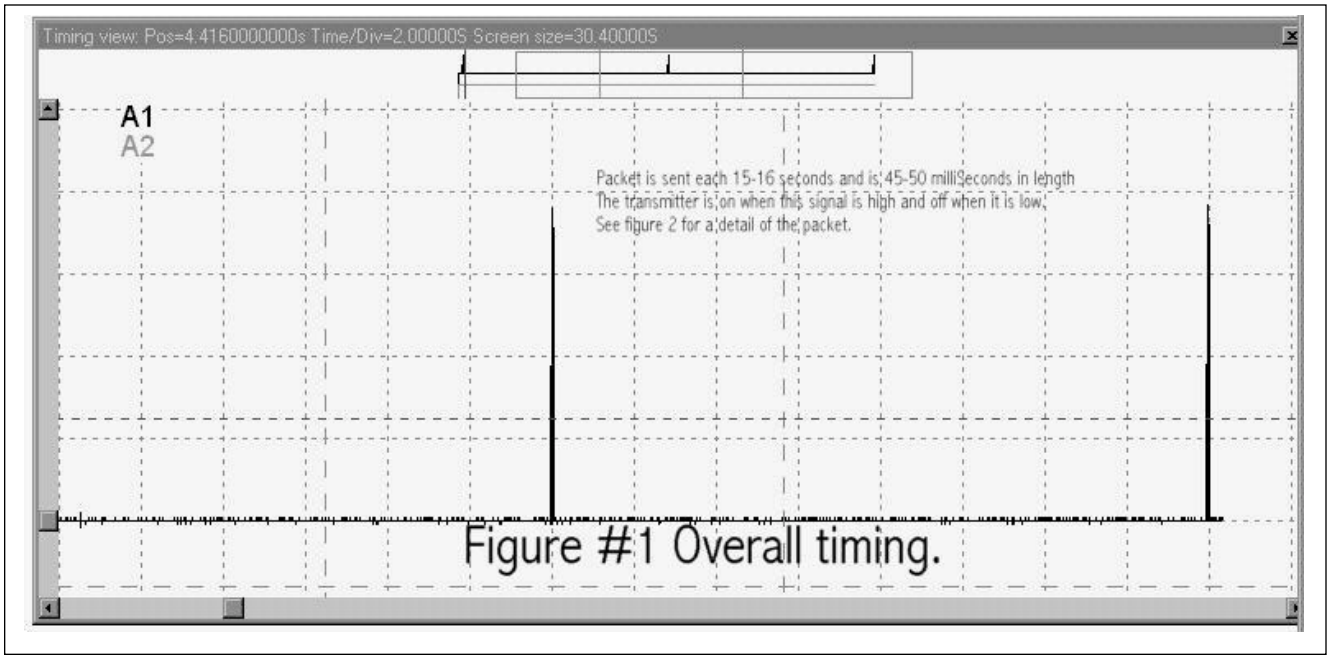


Figure #1 Overall timing.

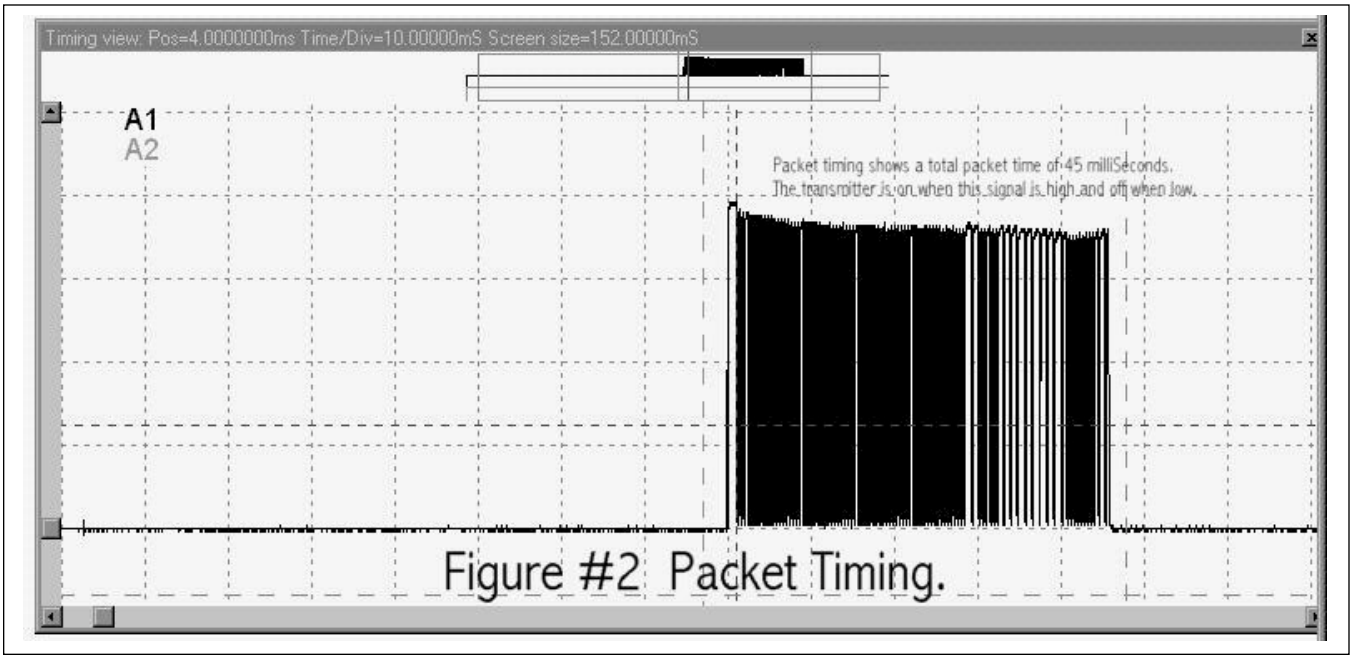
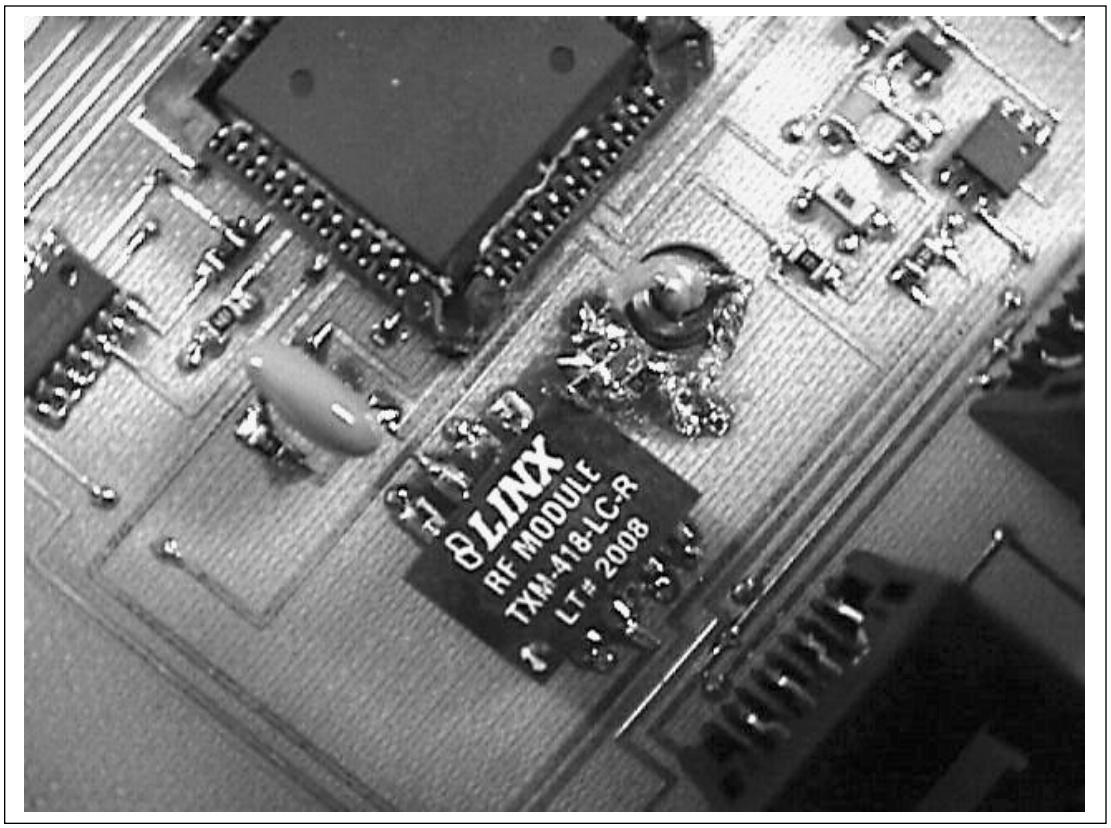


Figure #2 Packet Timing.



Figuare #3: Antenna solder connection to PCB.

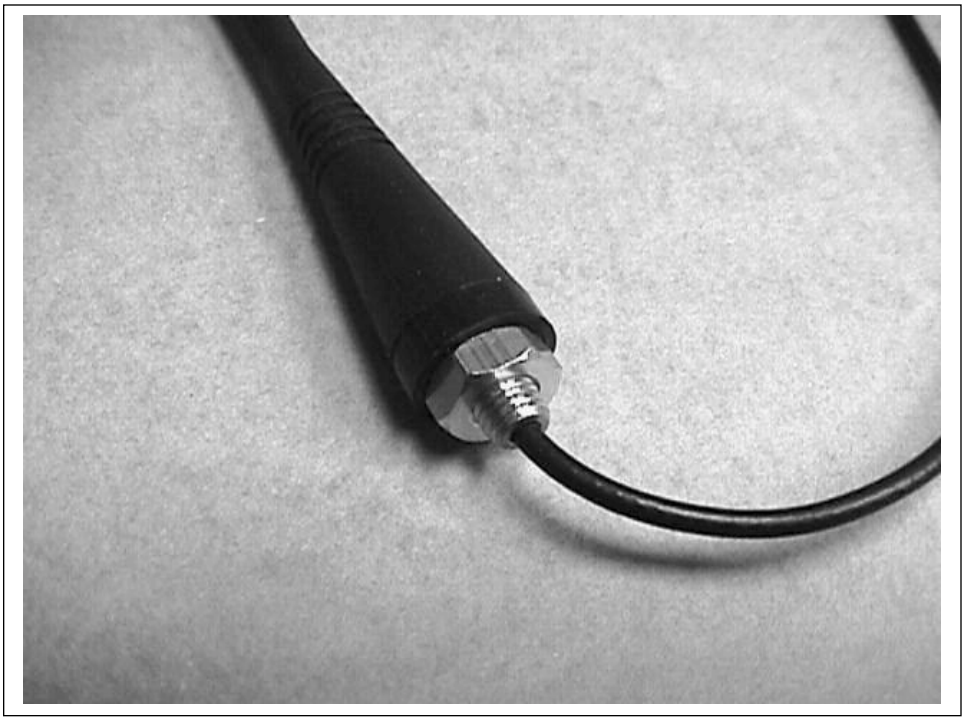


Figure #4: Linx Technologies model ANT-418-PW-QW