Point Six, Inc.

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To Whom It May Concern:

The Point Six wireless IR proximity sensor (model Point Sensor IRProx2) transmits a 15-16 millisecond packet once each 600-10 seconds. This is identical to the data packet timing of a previously certified "M5ZWOW".

The packet consists of transmitter-on/transmitter-off timing that represents the serial number and vibration data. The duty cycle is approximately 50%. The packet time can vary with serial number between 14-16 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, 16 milliseconds, cannot be shown because serial number would have to be forced to make this so. Figure #1 illustrates the overall timing; a packet is sent each 10 seconds in this worst case.

The battery used during the tests was new and was a standard 3.6 Volt Lithium cell. The battery is a 3.6 Volt Lithium chemistry, which has a flat discharge curve from new to about 90% used. In this application the battery requires about 3 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 short time when the test was performed.

The label will be Flexcon 2 mil PM200S mylar with a Flexcon 1 mil PM100C Polyester laminate.

John I. Compton
President, Point Six, Inc.

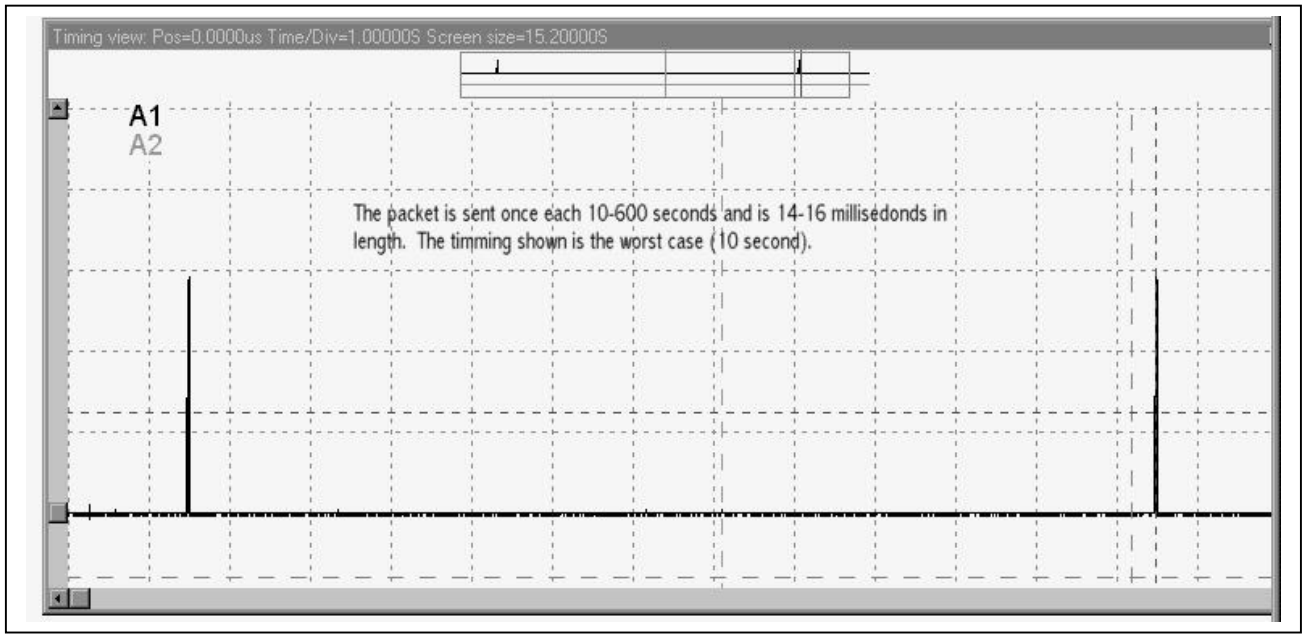

Figure #1 Overall timing

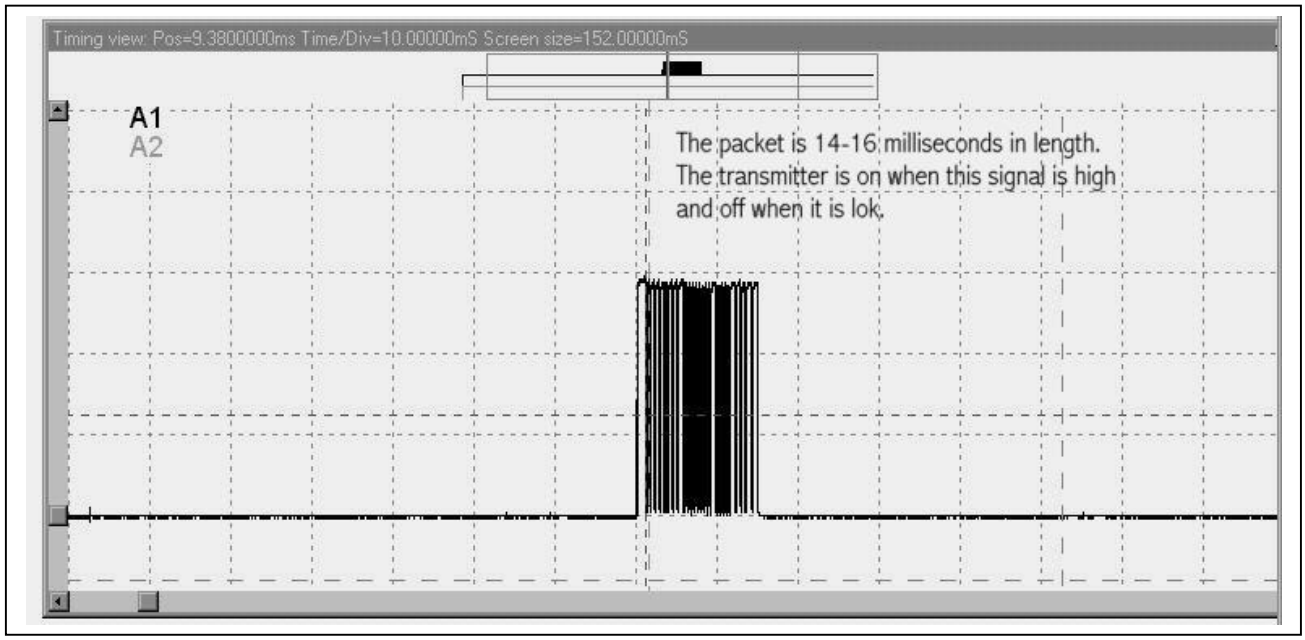

Figure #2 Packet Timing