

AD HOC
ELECTRONICS

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To Whom It May Concern:

The Ad Hoc motion sensor transmits a 15-16 millisecond packet with a maximum total ON-time in any 100ms interval of 8ms. The smallest period between transmissions is 10 seconds, shown below.

The packet consists of transmitter-on/transmitter-off timing that represents the serial number and data. The duty cycle is approximately 50%. The packet time can vary with serial number between 14-16 milliseconds. The Ad Hoc wireless motion sensor has a maximum total ON-time in any 100ms interval of 8ms. 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 push button function does not alter the nature of the transmitted packet. The push button causes the next packet to be transmitted to have a different numerical data value when decoded than would otherwise be the case, indicating that the unit was being serviced.

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

The adhesive is permanent.

Sincerely,

Jan F. Finlinson
Director, Ad Hoc Electronics, LLC

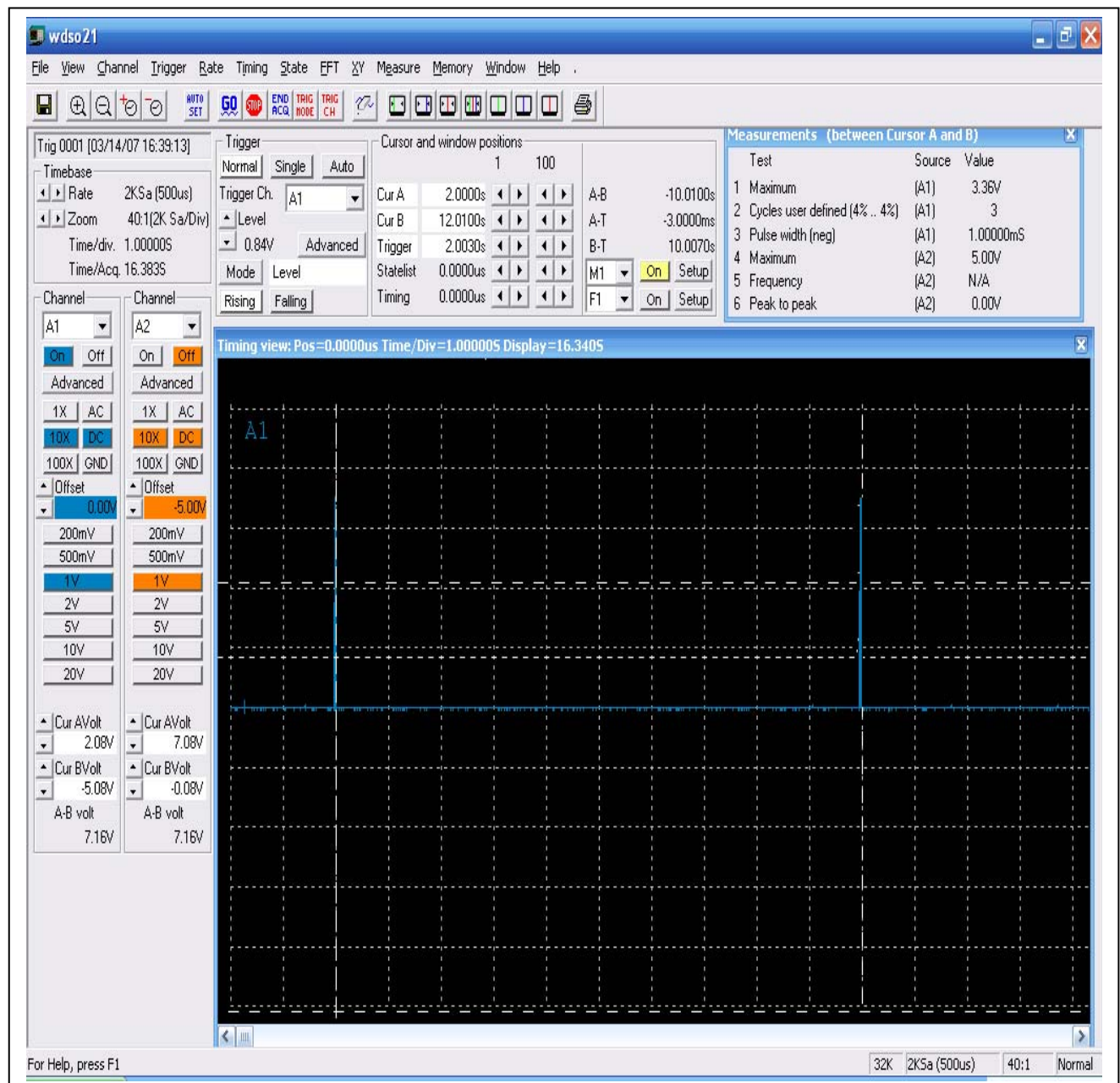


Figure #1 Overall timing

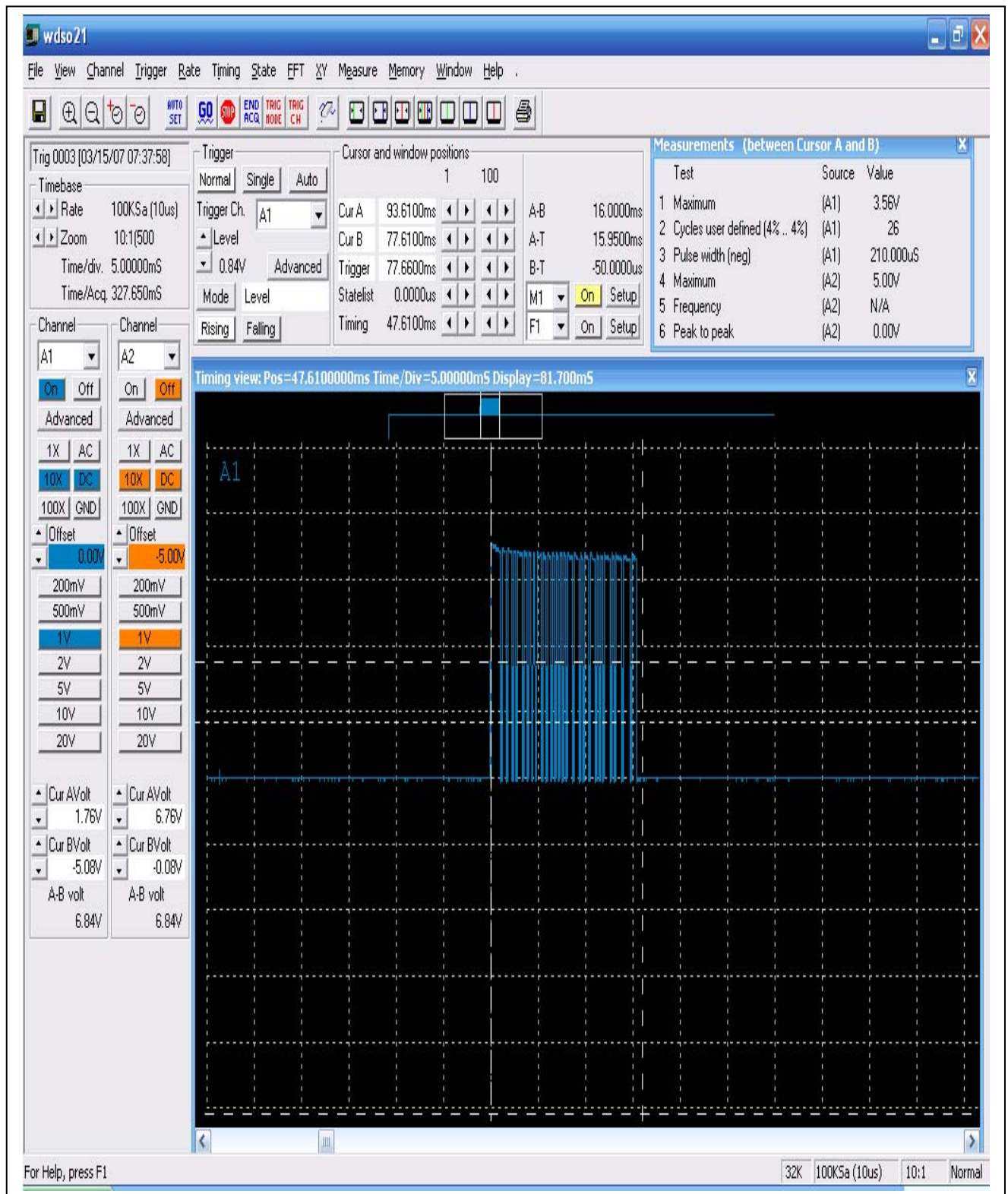


Figure #2 Packet Timing