

Appendix F: Waveforms

On a change of state, 8 identical packets are transmitted at random intervals. The time interval between each packet varies between 100 – 450 ms. Each packet is PWM-ASK with a duration no longer than 20 ms. Since the modulation is PWM-ASK, the duty cycle is approximately 50%. On average for every 100 ms, the unit is transmitting for less than 10 ms of that time period. The average measurement is therefore 10 dB below the peak pulse measurement.

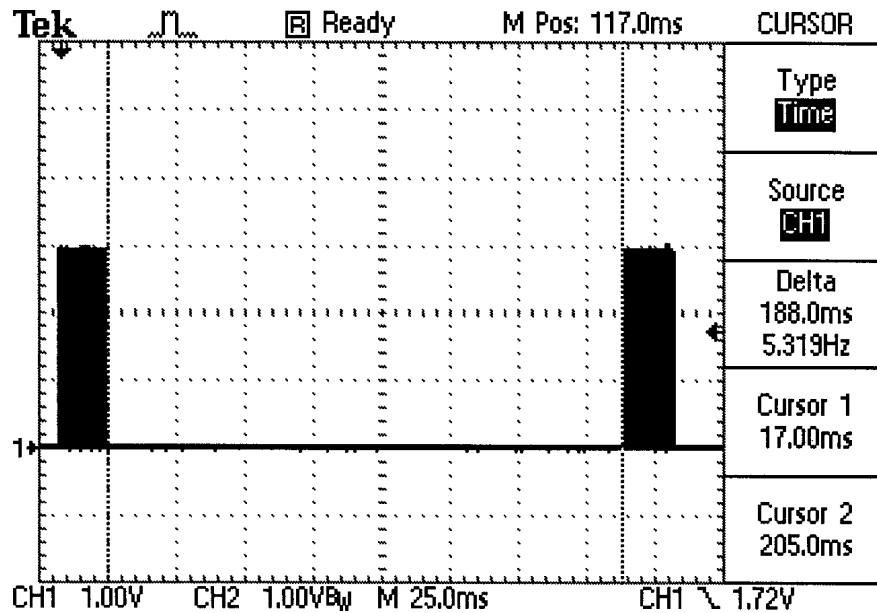


Figure 1 Transmitted Data Packets, 25ms/div

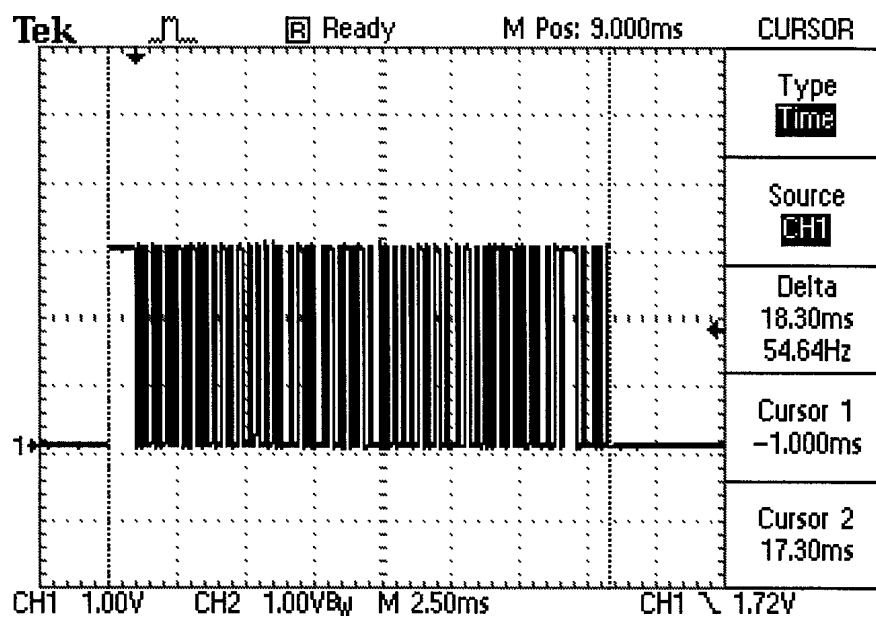


Figure 2 Transmitted Data Packet, 2.5 ms/div

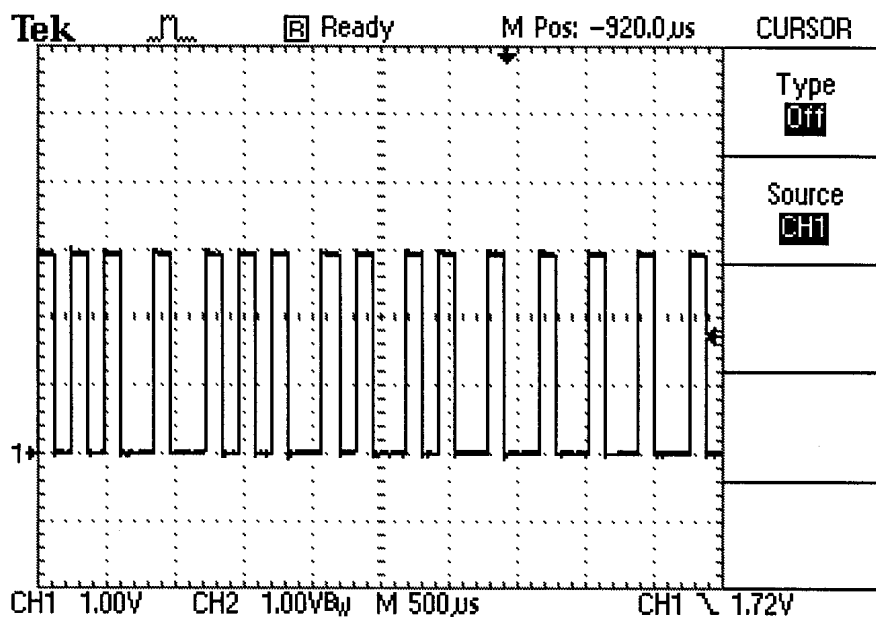


Figure 3 Transmitted Data Packet, 500 us/div