



User input at a PC is converted into a stream of binary digits (1s and 0s). In this graph of a typical digital signal, binary one is represented by -5 volts and binary zero is represented by $+5$ volts. The signal for each bit has a duration of 0.02 msec, giving a data rate of $50,000$ bits per second (50 kbps).

Figure 3.12 Conversion of PC Input to Digital Signal