PLTW Engineering

Activity 2.3.2 Seven-Segment Displays

Introduction

What do alarm clocks, cable TV converter boxes, home answering machines, and inexpensive calculators all have in common? In addition to being built from electronics, many also include seven-segment displays as part of their design.

There are two types of seven-segment displays: common cathode and common anode. Understanding how these displays work and the differences between them is fundamental to designing many different types of electronic devices.

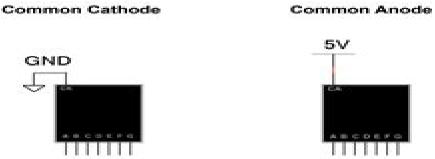
In this activity you will learn how to use seven-segment displays to display both alpha and numeric characters. You will also be introduced to the Seven-Segment Display Driver.

Equipment

- Circuit Design Software (CDS)
- Breadboard (DMS or DLB)
- #22 Gauge solid wire
- Integrated Circuits (74LS04 & 74LS32)
- Common Cathode Seven-Segment Display

Procedure

 Let's investigate what alpha-numeric characters we can display on a seven-segment display.



Activity 2 3 Sizing Up The Situation

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