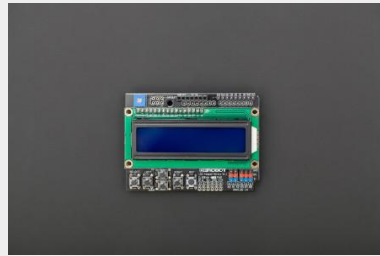


LCD Keypad Shield For Arduino



INTRODUCTION

This is a very popular LCD Keypad shield for [Arduino](#) and other variants. It includes a 2x16 [LCD display](#) and 6 momentary push buttons. Pins 4, 5, 6, 7, 8, 9 and 10 are used to interface with the LCD. Just one Analog Pin 0 is used to read the five pushbuttons. The LCD shield supports contrast adjustment and back-lit on/off functions. It also exposes five analog pins with DFRobot color code for easy analog sensor plugging and display. The on board [LED](#) indicates power on.

This lcd arduino shield has 5 keys — select, up, right, down and left which allow you move through menus and make selections straight from one board attached to your Arduino project without requiring a massive tower of shields.

This design allows you keep connecting sensors to the rest of the pins, and use it for monitoring or menu selection with the push buttons even for gaming. Project applications require testing or debugging. Displaying information right away help on most occasions when a computer is not at reach. If you are planning to build something not attached to a computer and you need to check what is going on when you place it on position, this addition will prove very valuable to make sure the program is running well.

The used LCD pins are not exposed on top side of the board leaving only the unused ones. This way, conflict with LCD pins on top of the board will not happen anymore. This design includes a APC / Bluetooth v3 socket to enable you data transmission with your robot.

The shield is designed for 'classic' Arduino such as the Uno, Duemilanove, Diecimilla, etc.

SPECIFICATION

- Operating Voltage: 5V
- 5 Push buttons to supply a custom menu control panel
- RST button for resetting arduino program
- Integrate a potentiometer for adjusting the backlight
- Pin used:
- D4-D7 -> LCD Data transmission
- D8 -> Register Select
- D9 -> Enable pin
- D10 -> Backlight control
- APC&BT pin header for connecting wireless devices, directly compatible with:
- APC220 Radio Communication Module
- DFRobot Bluetooth V3
- Expanded available I/O pins
- Expanded Analog Pinout with standard DFRobot configuration for fast sensor extension
- Dimension: 80 x 58 mm (3.15x 2.28 in)

DOCUMENTS

- Wiki (LCD KeyPad Shield For Arduino)
- Product Dimension
- Layout

PROJECTS

- LCD for 3D printer menu selection
- Soil moisture reader