Gravity: 1602 LCD Keypad Shield For Arduino

SKU:DFR0009 Brand:DFRobot Reward Points: 99

Quantity Based

QTY	DISCOUNT
2-4	
5-9	
10+	

Quantity: - +

ADD TO CART

64

Frequently Bought Together

Gravity: 1602 LCD Keypad Shield For Arduino + Prototypin... Arduino + Input Shield... Arduino + 128x64 Graphic LCD + ... V1.0 (SPI Interface) =

You have choosen:0
Total amount:

BUY IT NOW

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.

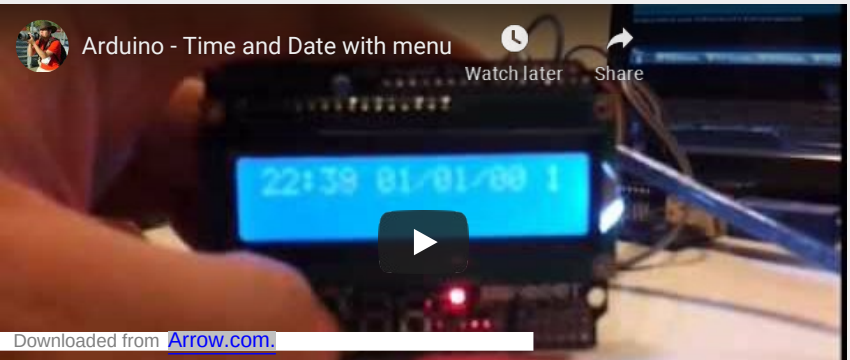
This lcd arduino shield has 5 keys — select, up, right, down and left which allow you move through menus and make selections straight from one board attached to your Arduino project without requiring a massive tower of shields.

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.

1602 LCD Keypad Shield For Arduino projects:



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

SHIPPING LIST

- LCD Keypad Shield for Arduino x1

PROJECTS

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

TUTORIAL

Existential Crisis aka Arduino RPG

Existential Crisis aka Arduino RPG

Arduino

2016-09-21 12:06:01

How To Build A Robot - Lesson 6:...

Robotics

2016-12-21 08:16:14

How to make a Wobbly Penguin...

Robotics Arduino

2017-07-18 08:21:42

Google Chrome Dinosaur Game on...

Arduino

2018-08-18 09:52:09

REVIEW

FAQ

cfishy • 5 years ago
I used this LCD shield for my wind seeded randomizer project here: http://www.thingiverse.com/...
1 • Reply • Share ›

DFRobot Support Mod ➔ cfishy • 5 years ago
Hello, Cfishy. We've been shared your project on our Facebook page. It's popular! Thank you :)
• Reply • Share ›

CherudimLeaf ➔ cfishy • 5 years ago
WOW~
• Reply • Share ›

ludovic • a year ago
I buy 5 LCd keypad, ,

I got a problem with analog read, it never return the good value,
If not button is press, it return 16, down is 15, right is 0, select and left retuyrn nothing.
I have the problem with 2 shield,
The third one , i lost the down button, but the value are good.

My arduino is a XDR duino

Do you have an advice ?

Thnaks
Ludo
• Reply • Share ›

DFRobot Support Mod ➔ ludovic • a year ago
Hey Ludo,
Since you seem to have multiple problems could you email techsupport@dfrobot.com with specific details about the problem for each shield. The more information you can supply the better we can assist you. Thanks!
• Reply • Share ›

ludovic ➔ DFRobot Support • a year ago
HI, I found the problem, it doens(t cam from the LCDkeypad, but from my arduino Board. I think there was a short circuit. I test with a new arduino board and all is alright.
• Reply • Share ›

DFRobot Support Mod ➔ ludovic • a year ago
Good detective work! If you need any further assistance, please feel free to reach out.
• Reply • Share ›

sree • 2 years ago
any suggestion for a button programmable 2 line Mini LED / LCD display
• Reply • Share ›

sree ➚ sree • 2 years ago

any suggestion for a button programmable alphanumeric 2 line Mini LED / LCD display

Reply • Share ›

DFRobot Support Mod ➚ sree • 2 years ago

You mean press the button to switch between different programs?

Reply • Share ›

BrowAN • 2 years ago

With the 1602 LCD Keypad Shield For Arduino installed I have voltage on all my analog inputs with nothing connected to them? When I remove the shield all analog input work properly. If the shield is installed I read 1018 to 1020 on all analog input with nothing installed on the pins?

Reply • Share ›

DFRobot Support Mod ➚ BrowAN • 2 years ago

No, when the LCD shield is connected, other analog pins are connect to Arduino, they are the same as the other analog pins on Arduino, they can work as normal analog pins.

Reply • Share ›

Richard • 3 years ago

Hi, do you know where I can get button caps that fit on the keys on this shield? I need to extend the length of the buttons to fit through the case that I'm mounting it in.

Reply • Share ›

Richard • 3 years ago

Hi, how do I control the backlight on this display? There's no indication of how to do this in the source code samples on the wiki (https://www.dfrobot.com/wik...

Reply • Share ›

DFRobot Support Mod ➚ Richard • 3 years ago

You can adjust the potentiometer on the shield board.

Reply • Share ›

Richard ➚ DFRobot Support • 3 years ago

According to https://www.dfrobot.com/wik..., pin D10 is for LCD Backlight Control. How do I use this pin in a sketch to control the LCD backlight?

Reply • Share ›

DFRobot Support Mod ➚ Richard • 3 years ago

D10 can control the LCD back light on or off, set it to high or low would turn the LCD back light on or off.

1 Reply • Share ›

1

Nyor Gole • 3 years ago

Hi there, we use this device in our project just wondering is it the same wiring.

We're using Wido Board and LCD shield for the display and a Finger print sensor.

Is there any tutorial or any web to follow?

Thanks in advance =)

Reply • Share ›

DFRobot Support Mod ➚ Nyor Gole • 3 years ago

Hi

The pin sockets in this shield is the same with Wido board, you can connect the finger print sensor to the shield like its wiki

Reply • Share ›

staa aajn • 4 years ago

Hi, is there more discount for 20+ or 50+ pieces? Can you provide an RoHS certificate? A document so that I can prove that I'm using RoHS components? Thank you.

Reply • Share ›

DFRobot Support Mod ➔ staa aajn • 4 years ago
It is better to contact with sales department directly: sales@dfrobot.com
^ • Reply • Share ›

RyanN • 4 years ago
I am trying to use this shield and the arduino UNO in order to make monitor and control the speed of a 12V motor is this possible?
^ • Reply • Share ›

DFRobot Support Mod ➔ RyanN • 4 years ago • edited
What's your motor driving pin? This LCD keypad shield use D4~D9, it will be a conflict with our motor driver shield.
Recommend this I2C display https://www.dfrobot.com/ind...
^ • Reply • Share ›

staa aajn • 4 years ago
is this RoHS compliant?
^ • Reply • Share ›

DFRobot Support Mod ➔ staa aajn • 4 years ago
yes.
^ • Reply • Share ›

Andy Hegedus • 5 years ago
Is it confirmed to work with an Inet Galileo Gen. 2 board? I am not getting anything.
^ • Reply • Share ›

DFRobot Support Mod ➔ Andy Hegedus • 4 years ago
Yes, it's compatible.
^ • Reply • Share ›

William Swann • 5 years ago
Will this shield work on the Mega?
^ • Reply • Share ›

DFRobot Support Mod ➔ William Swann • 5 years ago
Yeah, it could work with Mega 1280 and 2560
^ • Reply • Share ›

Louie Aguilar ➔ DFRobot Support • 3 years ago
please provide a sample code for arduino mega 2560 r3
^ • Reply • Share ›

DFRobot Support Mod ➔ Louie Aguilar • 3 years ago
Please check the Wiki page: https://www.dfrobot.com/wik...
This shield is compatible for Mega
^ • Reply • Share ›

Louie Aguilar ➔ DFRobot Support • 3 years ago
thanks! ive already found a library for my mega 2560..
1 ^ • Reply • Share ›

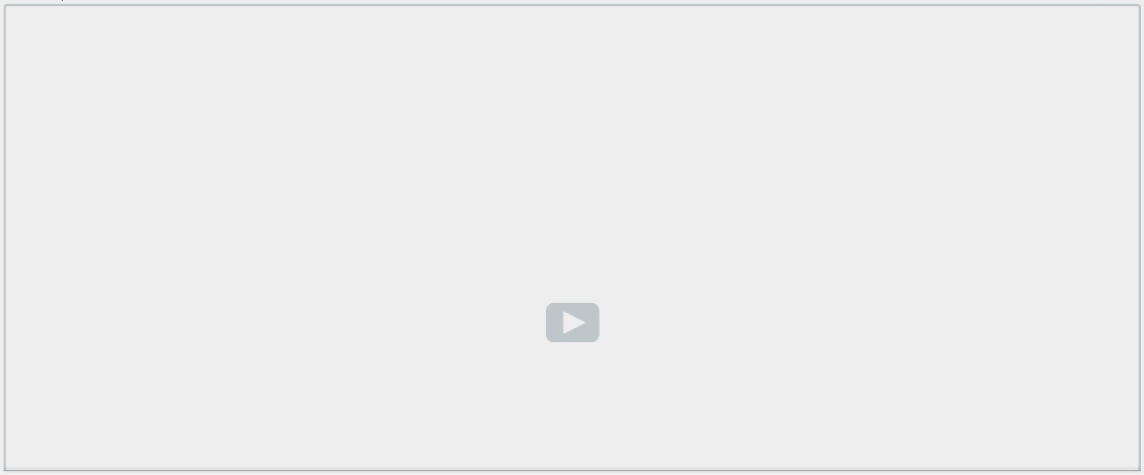
lede • 5 years ago
Anyone who has experience using this LCD shield on an Arduino 101 / Genuine 101? Which library did you use for it?
^ • Reply • Share ›

DFRobot Support Mod ➔ lede • 5 years ago
development tool, the library should be compatible.

• Reply • Share ›

Alex • 5 years ago • edited

I used pin 10. Blown LCD LED.



see more

• Reply • Share ›

DFRobot Support Mod ➔ Alex • 5 years ago

HI, the page is broken, could you contact our techsupport for the help? It is better to post the post on the forum

• Reply • Share ›

Bruno José Teixeira Coelho • 5 years ago

Hello,
I need to add some extensions to the buttons so that it will be easier to operate outside my aluminium project box. Anyone has good suggestions on how to do so?

• Reply • Share ›

PA1TAS ➔ Bruno José Teixeira Coelho • 5 years ago

Or connect them to the A0 pin and try to get the values of the resistor's that they use for the shield and then connet it to the outer project box. Hope it will help.

• Reply • Share ›

CherudimLeaf ➔ Bruno José Teixeira Coelho • 5 years ago

Try add a gasket or replace a long button.

• Reply • Share ›

Rafael Dias • 5 years ago

Hi!
I want to know if the LCD can operate in a 3V3 environment.

Thanks

• Reply • Share ›

DFRobot Support Mod ➔ Rafael Dias • 5 years ago

Hi, I tried 3.3V before, the screen will be very dim. but it will work.

1 • Reply • Share ›

Rafael Dias ➔ DFRobot Support • 5 years ago • edited

Thanks you.

I'm writing a tutorial to demonstrate the usage of dfrobot lcd shield with a Texas connected launchpad development kit.

I think that in this week I'll finish it.

• Reply • Share ›

CherudimLeaf ➔ Rafael Dias • 5 years ago

Launchpad? Could you share me your project when you finish it?

Rafael Dias ➔ CherudimLeaf • 5 years ago
Sure!
• Reply • Share ›

Rafael Dias ➔ Rafael Dias • 5 years ago
Sorry!
I do not forget you :)

https://github.com/rdmeneze...
• Reply • Share ›

DFRobot Support Mod ➔ Rafael Dias • 5 years ago
Thank you
1 • Reply • Share ›

tangara tungara • 5 years ago
1. What is the height of buttons

2. Is there a side view of the product.
• Reply • Share ›

DFRobot Support Mod ➔ tangara tungara • 5 years ago
The height of button is 5mm, and it has been included in the size:13mm (H).
• Reply • Share ›

Musharraf Ahmed Hanif • 5 years ago
D8 is connected to RS (register select) not reset on the LCD controller. RS is used to select either the data memory or character generator memory. When you use the name reset it might confuse people.
• Reply • Share ›

DFRobot Support Mod ➔ Musharraf Ahmed Hanif • 5 years ago
HI, Thank you for your remind, we have corrected the description.
• Reply • Share ›

Sign up for exclusive offers!

Your email address →

Like us on