



WHADDA WPI 471 Bar Graph Display Module Instruction Manual

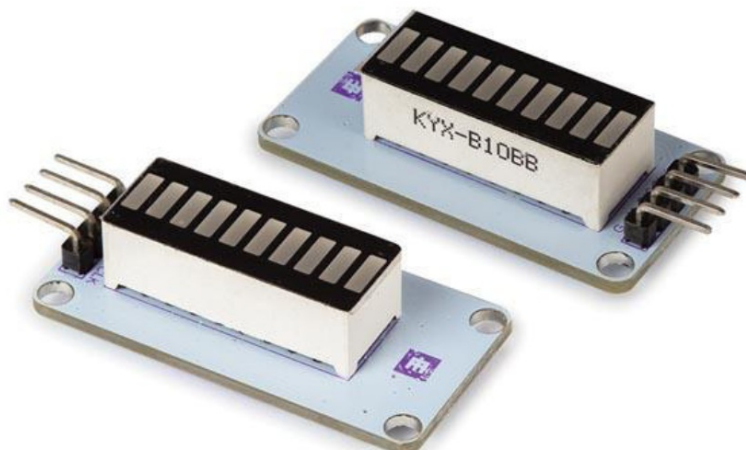
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WHADDA WPI 471 Bar Graph Display Module



Introduction

To all residents of the European Union

Important environmental information about this product

This symbol on the device or the package indicates that disposal of the device after its lifecycle could harm the environment. Do not dispose of the unit (or batteries) as unsorted municipal waste; it should be taken to a specialized company for recycling. This device should be returned to your distributor or to a local recycling service. Respect the local environmental rules.

If in doubt, contact your local waste disposal authorities.

Thank you for choosing Whadda! Please read the manual thoroughly before bringing this device into service. If the device was damaged in transit, do not install or use it and contact your dealer.

Safety Instructions

- Read and understand this manual and all safety signs before using this appliance.
- For indoor use only.
- This device can be used by children aged from 8 years and above, and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning the use of the device in a safe way and understand the hazards involved. Children shall not play with the device. Cleaning and user maintenance shall not be made by children without supervision.

General Guidelines

- Refer to the Velleman® Service and Quality Warranty on the last pages of this manual.
- All modifications of the device are forbidden for safety reasons. Damage caused by user modifications to the device is not covered by the warranty.
- Only use the device for its intended purpose. Using the device in an unauthorized way will void the warranty.
- Damage caused by disregard of certain guidelines in this manual is not covered by the warranty and the dealer will not accept responsibility for any ensuing defects or problems.
- Nor Velleman nv nor its dealers can be held responsible for any damage (extraordinary, incidental or indirect) – of any nature (financial, physical...) arising from the possession, use or failure of this product.
- Keep this manual for future reference.

What is Arduino

Arduino® is an open-source prototyping platform based on easy-to-use hardware and software. Arduino® boards are able to read inputs – light-on sensor, a finger on a button or a Twitter message – and turn it into an output – activating of a motor, turning on an LED, publishing something online. You can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so, you use the Arduino programming language (based on Wiring) and the Arduino® software IDE (based on Processing). Additional shields/modules/components are required for reading a twitter message or publishing online. Surf to www.arduino.cc for more information

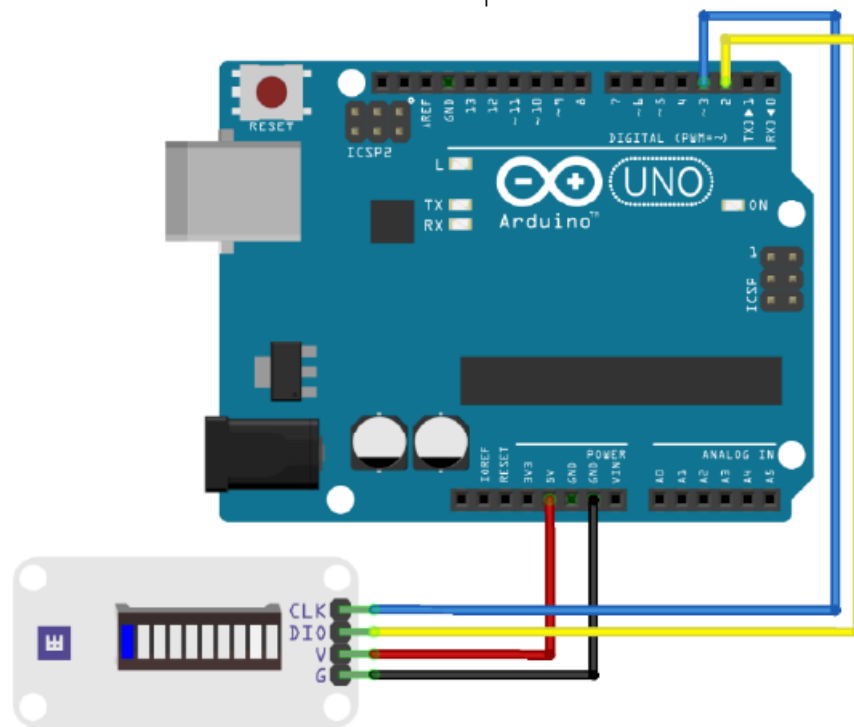
Product Overview

The Whadda bar graph module allows any microcontroller board to easily drive a 10-segment blue LED bar graph. The module uses a TM1651 LED driver chip to drive the individual LED segments, which can be controlled by using only 2 GPIO pins of a microcontroller (such as an Arduino® compatible board). It should be noted that some of the LED-segments are wired together, resulting in 8 different controllable states of the LED bar graph. This module is ideally suited to display levels of battery charge, water tanks, etc...

Specifications

- Supply voltage: 3,3 – 5 V DC
- Color: Blue
- Driver chip: TM1651
- Number of LED segments: 10
- Number of level indicators: 8
- Interface: 2 wire serial
- Wiring description

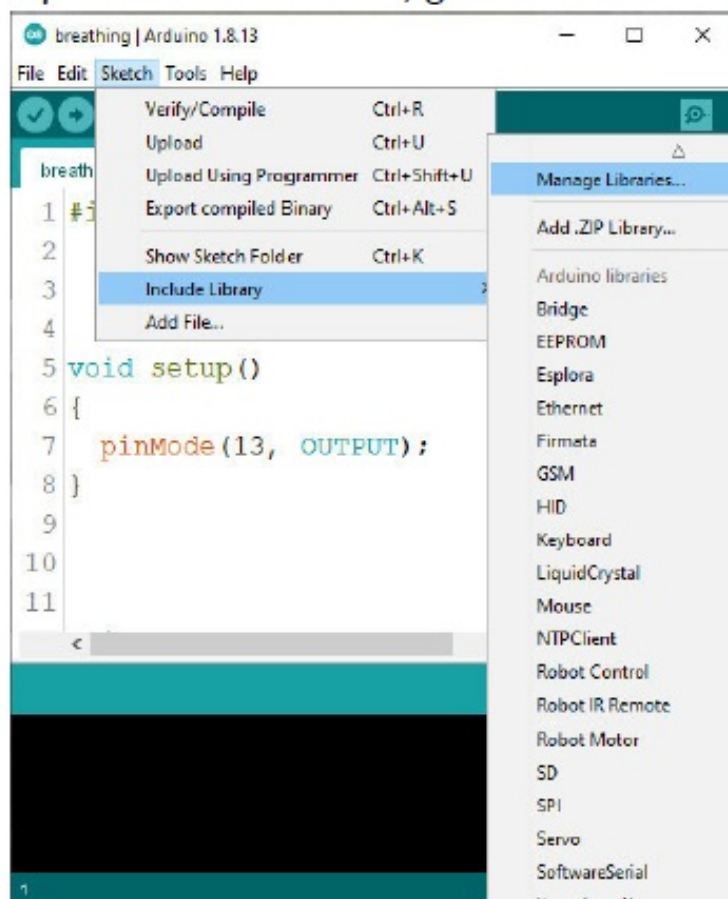
Pin	Name	Arduino® connection
CLK	Serial clock	Digital pin (e.g. D3)
DIO	Serial data Input/Output	Digital pin (e.g. D2)
V	Supply voltage (5 V DC)	5V
G	Ground	GND



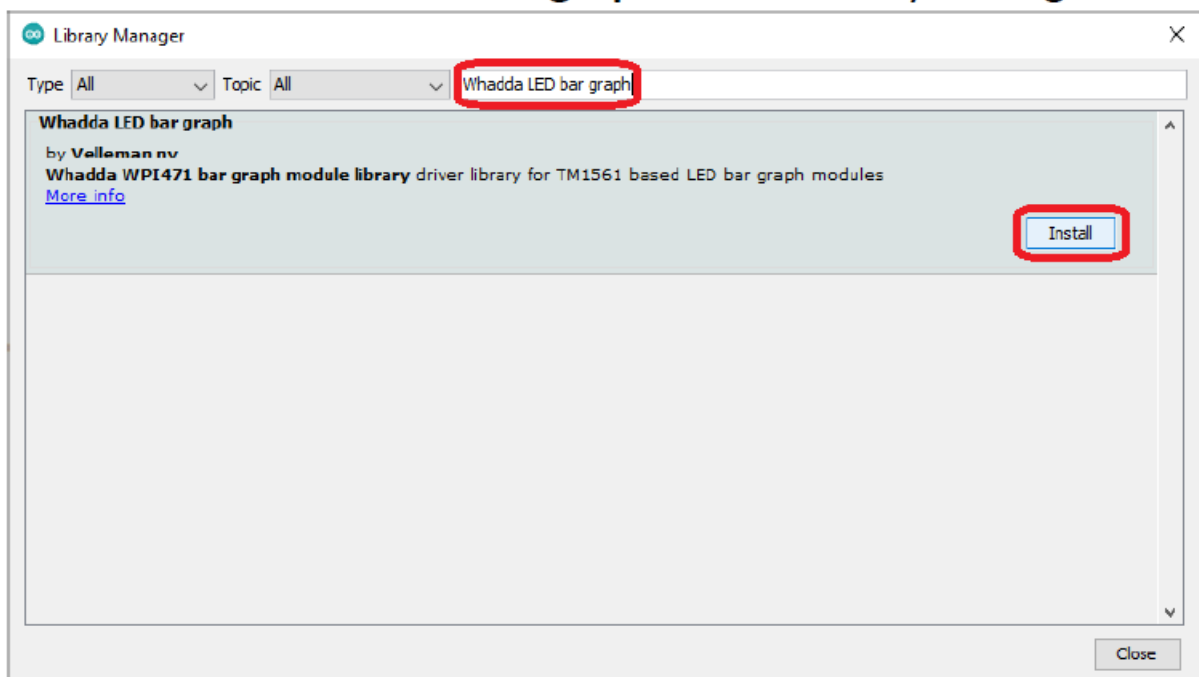
Example program

You can download the example Arduino® program and Whadda LED bar graph Arduino® library by using the Arduino® Library manager. Or go to <https://github.com/WhaddaMakers/Bar-graph-display-module>.

1. Open the Arduino IDE, go to Sketch > Include Library > Manage Libraries...




2. Search for Whadda LED bar graph in the Library manager search window, and click install:



whadda.com

Documents / Resources

	<p>WHADDA WPI 471 Bar Graph Display Module [pdf] Instruction Manual WPI 471 Bar Graph Display Module, WPI 471, Bar Graph Display Module</p>
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References

-  [Whadda - Exciting Electronics](#)
-  [Arduino - Home](#)
-  [Arduino - Home](#)
-  [GitHub - WhaddaMakers/Bar-graph-display-module: Arduino library and example code for the Whadda LED bar graph module \(WPI471\).](#)