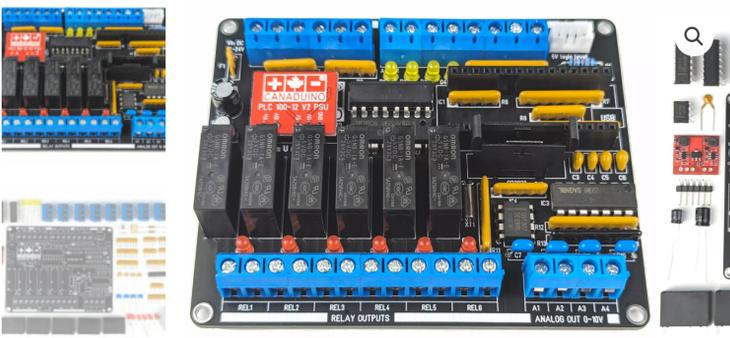


CANADUINO MEGA328 PLC-100 DIY Kit V2 (for Arduino Nano)

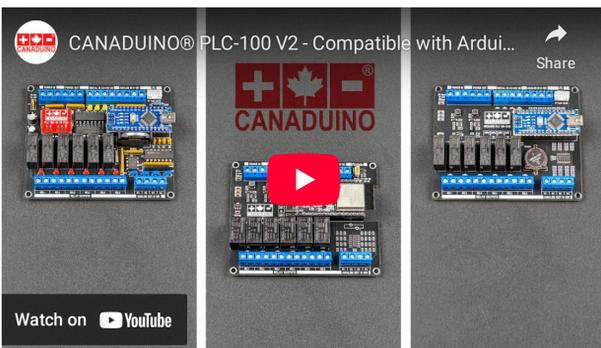
Home » Products » CANADUINO MEGA328 PLC-100 DIY Kit V2 (for Arduino Nano)



SKU:26442

Description Additional information

The CANADUINO PLC-100 V2 DIY Kit is a fully fitted, tiny Programmable Logic Controller for Arduino Nano V3 (sold separately) with a footprint of only 100 x 80mm!



This DIY soldering kit offers an incredible cheap opportunity to add a programmable logic controller to many kinds of projects and machines like lighting, HVAC, greenhouses, water treatment or smokehouses. It can help you control your Halloween decoration or your manufacturing equipment.

CANADUINO PLC-100 V2 is compatible with Arduino Nano V3 or compatible 5V modules, and can be programmed using Arduino IDE or code-free tools like [Visuino](#) from Mitov.

CANADUINO PLC-100 V2 fits just any budget but delivers power and versatility equal to 10x more expensive professional control devices.

CANADUINO PLC-100 V2 is a Do-It-Yourself kit that is easy to build and only requires basic electronic tools and soldering experience.

CANADUINO PLC-100 V2 has a STEMMA-compatible I2C connector (5V logic level) on board, for easy expansion with sensors, displays, or any other I2C compatible devices.

A few use cases:

1. Closing the garage door after the car is parked in position and no movement is recorded for 2 minutes.
2. Starting background music with the garden watering 30 minutes after sunset when soil moisture is <20%.
3. Injecting water when the humidity in your smoker drops <60% but the temperature >70C.

Basic features:

- Power supply 12** -24V DC, 0.5A
- 4 analog 0-10V inputs (10mV res.)
- 4 analog 0-10V outputs (2.5mV res.)
- 4 digital inputs 3.3-24V (minimum 1.5V for HIGH level)
- 6 digital 250V/5A relay outputs
- I2C bus (5V) with STEMMA connector for external sensors, displays etc.
- DS1307 RTC (real-time clock) with a backup battery
- IC sockets are included* (not in the pictures)

Advantages over the old version:

- Power supply 12** -24V DC instead of 12V DC
- DC-DC voltage controller instead of LDO and Zener diodes
- analog outputs provide full 0-10V swing with less PWM ripple
- better digital input circuits with Darlington opto-couplers
- digital inputs only require about 1.5V (3.3-24V guaranteed)
- I2C connector (5V) is compatible with all STEMMA I2C devices (like from Adafruit, for example)

The kit includes the PCB, all passive, active and mechanical parts as seen in the pictures. The Arduino Nano module is not included.

Buy here: [Arduino Nano V3 module with Mini-USB](#)

Buy here: [Arduino Nano V3 module with USB Type-C](#)

Substitute parts:

It might happen and there are slightly different resistor values shipped with the kit. Assemble the exact matching parts first, and then you will already see where the substitute parts go.

[Download a demo sketch to test inputs, outputs and the real-time-clock](#)

[Instructions including schematic and PCB position print.\(PDF Download\)](#)

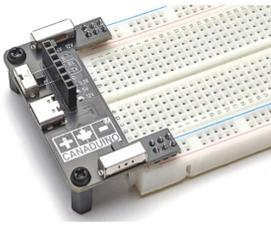
[PCB dimensions and mounting hole pattern.\(PDF\)](#)

[Assembling video \(of version 1\) and review by "Pileofstuff" on YouTube](#)

* We don't recommend the use of IC sockets in harsh environment. If the device is subject to large temperature shifts, vibration or high humidity, you better solder the ICs directly to the PCB without using the sockets.

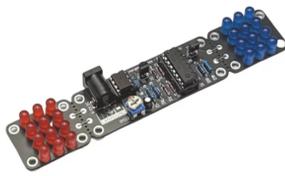
At 12V supply voltage, the maximum analog output voltage is limited to about 9.6V, which is still within the allowed tolerance for 0-10V systems. To achieve 10V analog output voltage, the supply voltage must be at least 12.2V DC.

Related products



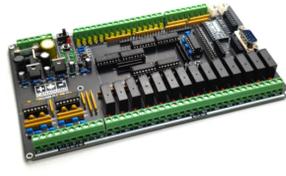
SKU 26867

CANADUINO Breadboard Power Supply 3.3V, 5V, 12V with USB TTL UART



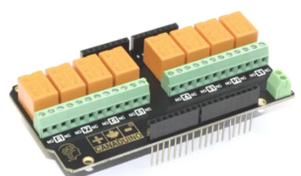
SKU 26890

Police Emergency Flasher DIY Soldering Kit



SKU 26995

CANADUINO MEGA2560 PLC-300 V2 DIY soldering kit



SKU 26699

CANADUINO 8-Ch. I2C Relay Shield DIY Kit for Arduino - stackable

Shop

- [About Us](#)
- [Product Sitemap](#)
- [Terms And Conditions](#)

Policies

- [Privacy Policy](#)
- [Return Policy](#)
- [Availability & Backorder Policy](#)
- [Shipping Policy](#)

Contact

- [Support](#)
- Mailing address:
7-5060 Tecumseh Rd E, Suite 155
Windsor, ON N8T 1C1