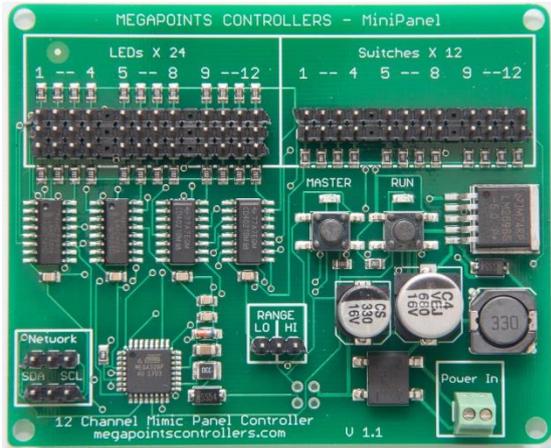


MegaPoints Controllers MiniPanel Starter Kit Quick Start Guide (rev 1)

For version 1 plug-n-play MiniPanel Processors

Congratulations on the purchase of your MegaPoints Controllers plug-n-play MiniPanel Starter Kit where you'll find everything you need to control up to 12 turnouts, semaphores, gates, barriers or doors using just a single network cable.



Each starter kit is supplied with the driver board(s) of choice whether controlling servos, Tortoise, Kato or regular solenoid motors.

In the box you'll find the following items:

- 1 x MiniPanel Processor (*plug-n-play*)
- 1 x Servo Controller
or
- 2 x Solenoid drivers
or
- 2 x Stall motor / Kato drivers
- 12 x LED cable pairs
- 12 x Panel buttons and cables
- 1 x Network cable
- 4 x Pullup jumpers

Additional items

Before starting you'll need the following additional items:

Power supply

The MiniPanel requires a regulated 12 volt power supply with minimum current capability of 500 mA. ***This must be a regulated power supply.*** See the FAQ section of our web

site for recommendations. Please do not use transformers or the DC output of train controllers. They lack the required power and are generally not regulated.

Each driver board has its own power supply requirements. Please see the specific documentation on the website for each board for full details. The requirements can be summarised as:

Servo Controller:

12 volts – min 2 Amps regulated.

Solenoid Driver:

16 volts AC or DC – min 1.5 Amps.

Tortoise/Kato Driver:

12 volts – min 500mA for stall motors

12 volts – min 1A for Kato points

Servos

Our website (FAQ) contains links to recommended servos and our recommendation is dependant on your planned purpose.

Getting started

Why not watch the MiniPanel Starter Kit video on our web site? It will walk you through this guide. The videos can be found on the MiniPanel page of our web shop.

Before starting fit a pair of pullup jumpers to each of the controller boards. These locate to the pair of pins marked pullup. Once fitted you can forget about them.

Using the network lead connect one end to the MiniPanel network connector (*bottom left*) and the other end to a driver board or servo controller taking care to ensure correct polarity (*match the SDA and SCL connections both ends*).

Switch hook-up

Connect the switch cable to the supplied push button using either of the connectors. The other end is connected to the MiniPanel channels 1-12 with the black wire facing the outer edge of the board.

LED hook-up

Plug in the supplied LED cables to the top left LED pins channels 1-12. Ensure the black lead faces the outer edge of the board.

First time switch on.

Hook up your regulated 12 volt power source to the MiniPanel processor and appropriate power to your driver boards. If using Servo Controllers or Stall motor/Kato driver boards the same power supply can be shared with the MiniPanel.

The very first time we fire up a servo controller we need to set it to SLAVE MODE so that it will take instructions via the network cable you just connected. To do this, hold down the left button (*marked **LOW***) on the Servo Controller while applying power. You will observe both servo controller LEDs flash alternately followed by the left LED flashing twice before entering its heartbeat flash to show all is well.

Pressing button plugged into channel #1 will toggle the servo connected to board #1 channel #1.

Congratulations, you just set up a control system for 24 points using low cost servos.

Further information

Go to our web site for troubleshooting, how-to videos, the full documentation and links to the additional items you may need.

megapointscontrollers.com

Web site address:

www.megapointscontrollers.com