

Arduino PLC – Test Mode

Your PLC unit comes programmed ready to use! It has a built in test mode (see the section under ESP8266 WiFi) that allows you to use the unit without any programming at all. Just connect terminal D32 to 12V DC (jumper D32 to power supply + lead) and the Common connection for the digital inputs to ground (jumper COM of the digital inputs to GND of the analog inputs). When the unit powers up you will step through some tests and the ability to enter/correct the time and date, but will finally arrive at a WiFi test.

In this mode the unit behaves as an access point. The SSID is WiFi-Test, the password is “password” and the IP address is 192.168.4.1. You can connect with your smart phone or laptop and are presented with a web page where you can read/set the digital inputs, digital outputs and relays and read the voltages on the analog inputs. The HTML code for this page is the file index.html in the ESP8266 folder under the PLduino-master that you can download from Git-Hub (<https://github.com/digitalloggers/PLduino>).

You can easily edit this HTML code to change the names (labels) for the inputs, outputs and relays to suit your needs and be able to use the test mode to control things and read the digital or analog inputs.