



## Datasheet

# Pre-Wired Prolon C1050 Controller Panel (PL-C1050-XXX)

## Description

The Prolon C1050 Panel is built with any C1050 controller of your choice (RTUS, HPS, FLX, etc.) into a single pre-wired industrial control panel ready for quick deployment; It is an ideal starting point for each system within a Prolon network. The panel's compact design allows for multiple panels to be installed in your workspace and leaves your job with a clean, professional appearance. Save time with a complete unit solution that includes Isolation relays on all digital outputs, overcurrent fuse protection, and wire management channels inside the panel. Clearly marked terminal blocks allow for easy wiring to equipment and connection to other Prolon panels and controllers and UL listing gives you and your customer peace of mind.

## Features

- Pre-wired industrial control panel equipped with clearly marked terminal blocks and fuses
- Maintains all functionality and flexibility of the C1050 controller including the ability to reflash into a different controller program (wiring diagrams available free at [proloncontrols.com](http://proloncontrols.com))
- Remote monitoring and configuration with FREE Prolon Focus software
- Stand-alone or networked (up to 127 nodes)
- Proportional integral (PI) control loops maximize performance
- 4 digital outputs and 1 analog output equipped with resettable fuses
- Can follow Occupied/Unoccupied schedule commands from a controller with a timeclock
- Highly customizable C1050 control sequences with protective limits, delays, and interlocks.
- Individual Sync/Source switches for each C1050 digital output allows a single controller to safely operate loads from multiple power sources if needed.
- All digital outputs are isolated with relays that are built into the panel
- Onboard LEDs allows for quick diagnostics of power, communication, and operation

## Technical Specifications

- **Supply:** 24 VAC  $\pm 10\%$ , 50/60 Hz, Class 2
- **Power:** 2 VA (consumption), 32 VA (input)
- **Overcurrent Protection:** Disconnect-Style Slo-Blo fuse (3A @ 250 VAC), with additional replacement fuse included
- **Inputs:** 3 analog configurable (thermistor / dry contact / 4-20mA / 0-5 VDC / 1-5 VDC / 0-10 VDC / 2-10 VDC), 1 digital (dry contact only)
- **Digital Outputs:** 4 triac outputs, 10-30 VAC source or sink, 300 mA max (resettable fuse). All digital outputs are isolated by relays in panel
- **Analog Output:** 1 output 0-10 VDC / 2-10 VDC / 0-5 VDC / 1-5 VDC, 40 mA max (resettable fuse)
- **Indication lights (LED):** State of each output / Communication / Power / State of microprocessor
- **Casing:** Molded ABS, UL94-HB
- **Communication:** Modbus RTU (RS485) up to 127 nodes
- **Baud Rates:** 9600, 19200, 38400, 57600, 76800, 115200
- **Connection:** Removable screw-type terminal blocks (max 16 AWG)
- **Dimensions:** 12.25" x 16.25" x 6.25" (311mm x 403mm x 159mm)
- **Weight:** 18.8 lbs (8.53 kg)
- **Environment:** -4 to 122 °F (-20 to 50 °C) non-Condensing
- **Certification:** UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B