

Pre-Wired One Controller Panel – PL-PN1-XX



Product Description

The ProLon one Controller Panel is built with your choice of one M2000, C1050, or NC2000 controller. Choose between multiple controller programs (RTU, MUA, FLX, etc.) into a single pre-wired industrial control panel ready for quick deployment. 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 NEMA 1 panel equipped with clearly marked terminal blocks and fuses
- Optional built-in 10-inch touchscreen display for local setup and monitoring is available when NC2000 is selected.
- Maintains all functionality and flexibility of controller including the ability to reflash into a different controller program (wiring diagrams available free at proloncontrols.com)
- Remote monitoring and configuration with FREE ProLon Focus software
- Stand-alone or networked (up to 127 nodes). Note: This panel will contain 1 node.
- Refer to individual controller Datasheets for specific controller functions (exact panel capabilities will vary depending on controller program selection)
- 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 ±10%, 50/60 Hz, Class 2
POWER	M2000: 5 VA (consumption), 40 VA (input) C1050: 2 VA (consumption), 32 VA (input) NC2000 (HMI): 30 VA NC2000 (NO HMI): 5VA
OVERCURRENT PROTECTION	Disconnect-Style Slo-Blo fuse (3A @ 250 VAC), with additional replacement fuse included
INPUTS	M2000: 9 analog inputs configurable (thermistor / dry contact / 4-20mA / 0-5 VDC / 1-5 VDC) individually configurable for each input C1050: 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	M2000: 5 triac outputs, 24 VAC source, 300 mA max (resettable fuse). All digital outputs are isolated by relays in panel C1050: 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	M2000: 3 outputs 0-10 VDC / 2-10 VDC / 0-5 VDC / 1-5 VDC, 40 mA max (resettable fuse) C1050: 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	NC2000 / M2000 / C1050: Modbus RTU (RS485) up to 127 nodes (Note: This panel contains 1 nodes) NC2000: Modbus TCP/IP (Static IP address or DHCP) / USB / Ethernet
BAUD RATES	9600, 19200, 38400, 57600, 76800, 115200
CONNECTION	Removable screw-type terminal blocks (max 16 AWG)
SD CARD	NC2000: Standard size only, SDSC or SDHC, FAT16 or FAT32
PANEL DIMENSIONS	12.25" x 16.25" x 6.25" (311mm x 403mm x 159mm)
WEIGHT	23 lbs (10.5 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

