Datasheet

Pre-Wired Prolon Master M2000 Panel (PL-PANEL-MASTER-M2000-XXX)

Description

The Prolon Master Panel combines Prolon's NC2000 Network Controller and any M2000 controller of your choice (RTU, MUA, FLX, etc.) into a single pre-wired industrial control panel ready for quick deployment. It is the ideal starting point for any Prolon project: a highly customizable M2000 controller in a package that offers Internet access, email alerts, datalogging and much more. Save time and money now that the two major components in a Prolon system are already wired together for you and protected by fuses and relays. Clearly marked terminal blocks allow for easy wiring to equipment and connection to other Prolon panels and controllers. An optional ten-inch touchscreen display acts as a local interface to the system and is mounted into the steel enclosure door.

Features

- Pre-wired industrial control panel equipped with clearly marked terminal blocks and fuses
- Combines Prolon's NC2000 and M2000 controllers into one convenient package ready to deploy
- Allows for remote configuration of your Prolon system locally or over the Internet
- Share outside air temperature and occupancy data to other Prolon controllers
- Sends up to 200 email alerts based on user-configurable conditions
- Records up to 100 simultaneous trend logs, saved onto a standard SD card
- Stores up to sixteen configurable weekly schedules and annual calendars
- Real time clock synchronizes over the Internet, can keep accurate time for 10 days without power
- Highly customizable M2000 control sequences with protective temperature limits and delays
- Individual Hand/Off/Auto switches for each M2000 output (digital or analog)
- All digital outputs are isolated with relays that are built into the panel
- Onboard LEDs allows for quick diagnostics of power, communication and operation
- Optional built-in 10-inch touchscreen display for local setup and monitoring, pre-loaded with Prolon Focus visualization software, including password lockout for standard and advanced user access

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2, 35 VA (consumption), 3A cartridge fuse included
- **Communication**:
  - Ethernet port for Modbus TCP/IP and Cloud Communication
  - 3 RS485 Modbus RTU ports (NC2000 IN, M2000 Master network, M2000 Follower network)
  - USB
- **Inputs**: 9 application-specific configurable analog inputs (ex: outside temperature /return / supply / proof of fan / static pressure, etc.). Input signals: thermistor / dry contact / 4-20mA / 0-5 VDC, individually configurable for each input.
- **Digital Outputs**: 5 digital outputs isolated by 12A relays providing 24VAC source
- **Analog Outputs**: 3 x 0-10 VDC outputs, 40 mA max
- **SD Card**: Standard size only, SDSC or SDHC, FAT16 or FAT32
- **Panel Dimensions**: 20.25" x 16.25" x 6.25" (514mm x 413mm x 159mm)
- **Weight**: 35 lbs (15.9 kg)
- **Environment**: 32-122 ºF (0-50 ºC) Non-Condensing
- **Controllers Certification**: UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS, FCC part 15: 2012 class B

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