PROLON

Datasheet

Network Controller (PL-NC2000)

Description

The NC2000 network controller is a communication module that performs several main functions. First and foremost, the NC2000 acts as a communication interface to a Prolon network (internet or USB). It also manages the occupancy schedule and the outside temperature readings and can distribute them to any Prolon controller on the network. The NC2000 can be configured to poll any Prolon controller and send email-based alerts upon user-selectable conditions and can also record trend logs for any controller on the network.

Features

- Modbus TCP/IP to serial converter allows remote configuration of your Prolon network
- Internal clock with up to 16 configurable weekly schedules and annual calendars
- Shares outside temperature data between devices
- Polls devices and sends email alerts based on user-configurable conditions
- Static IP address or DHCP
- Local connection to your PC via USB or RS485
- Factory reset switch (for IP address)
- Automated adjustment for daylight savings time
- Keeps precise time for 10 days without electricity and recharges in a matter of seconds
- Record up to 50 trend logs at the same time, saved onto a standard SD card

Technical Specifications

- **Supply**: 24 VAC ±10%, 50/60 Hz, Class 2
- **Power**: 5 VA (max)
- **Indication lights (LED)**: State of the communication ports / Power supply / Microprocessor state
- **Microprocessor**: ASIX AX11015, 8 bits, 25 MHz, 512 KB FLASH memory
- **Battery**: Super-capacitor 0.5F, keeps precise time for 10 days
- **Communication**:
  - Modbus TCP/IP (Static IP address or DHCP)
  - Modbus RTU (RS485), 1 input port and 1 output port, up to 127 nodes
  - USB
- **Baud rate**: 9600, 19200, 38400, 57600, 115200
- **SD Card**: Standard size only, SDSC or SDHC, FAT16 or FAT32
- **Connection**: Removable screw-type terminal blocks (max 16 AWG) for power and RS485, modular RJ45 jacks for Ethernet/RS485, USB female type A for local PC connection and DIN Rail connector or 4 screws for panel mount
- **Dimensions**: 5.39" x 4.41" x 2.25" (137mm x 112mm x 57mm)
- **Weight**: 0.9 lbs (0.41 kg)
- **Environment**: 32-122 ºF (0-50 ºC) Non-Condensing
- **Certification**: UL916 Energy Management Equipment, CAN/CSA-C22.2, RoHS