



Datasheet

FlexIO Controller (PL-C1000-FLX)

Description

The C1000 Flexio is a general purpose HVAC controller whose inputs and outputs can be individually configured for use in various applications. Unlike most ProLon controllers, the Flexio is not aimed at a specific HVAC sequence or piece of equipment, and instead can be used to perform any outlying functions that are not usually covered by existing ProLon devices. Outputs can be configured to respond to a variety of standard HVAC input signal types, ranging from temperatures, pressure, gas and more.

Features

- Many input types available: Temperature, Dry Contact, Pressure, Gas, Humidity
- Configurable names and display options for each input and output
- Configurable scales for pressure and gas inputs accommodates any sensor
- Outputs can act based on any local input, or on data received from a network master
- Can receive up to 5 different occupancy states from an NC2000, allowing for versatile lighting control
- Various output logic sequences are available: ON/OFF, PI Loop, Direct or Reverse acting, Pulsed
- Outputs can be interlocked with each other
- Outputs can be automatically overridden based on outside temperature and/or occupancy
- Operates standalone or can be integrated into a ProLon network

Technical Specifications

Supply: 24 VAC $\pm 10\%$, 50/60 Hz, Class 2

Power: 2 VA (consumption), 32 VA (input)

Inputs: 3 analog inputs with individually configurable signal ranges (thermistor, dry contact, 0-5 VDC, 1-5 VDC, 0.5-4.5 VDC), and 1 digital input

Digital Outputs: 4 triac outputs, 10-30 VAC source or sink, 300 mA max (resettable fuse)

Analog Output: 1 output 0-10 VDC / 2-10 VDC / 0-5 VDC, 40 mA max (resettable fuse)

Indication lights (LED): State of each output / Communication / Power / State of microprocessor

Microprocessor: PIC18F6722, 8 bits, 40 MHz, 128Ko FLASH memory

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 (16 AWG max) and RJ45 modular jacks.

Dimensions: 6.5" x 5.3" (165 mm x 135 mm)

Environment: 32-122 °F (0-50 °C) Non-Condensing

Certification: RoHS, FCC part 15: 2012 class B