



COMPATIBLE WITH UNIT VENTILATOR DESIGNS SUCH AS:

- ▶ Heat pumps
- ▶ Energy recovery ventilators
- ▶ Face and bypass designs
- ▶ Hot gas bypass applications
- ▶ Hot gas reheat applications

HEATING SOURCES

- ▶ Modulated water valve, gas furnace or electric elements
- ▶ Staged electric, gas or steam

COOLING SOURCES

- ▶ Damper controlled economizer
- ▶ Chilled water valve
- ▶ Staged refrigeration systems

To arrange for a demonstration of how this controller can be integrated into your design

CONTACT US
(519) 866-3930
or email us at
plon@changeaircontrolsystems.com

The Complete Solution

The PLON is a full feature DDC controller solution designed specifically for the controlling unit ventilators. Its standard capabilities include heating, cooling and ventilation. Adding an optional CO₂ controller, motion detector(s) and/or a Remote Interface Module completes the controls package that will provide an energy efficient solution for today's building demands.

Designed for controlling classroom ventilators applications, the PLON contains factory programmed (canned) control sequences to fit the equipment design and application. Options for controlling the fan based on occupancy, night setback, hot and chilled water are all programmable. Factory programming can be modified with any LonMark® network management tool. A network management tool Plug-In is also provided to simplify installation configurations.

The PLON can be integrated into and new or existing LonMark® network. Using LonMark®, an open-source protocol, prevents you from becoming locked into a proprietary system. The PLON has the flexibility to fit virtually every application and work with other LonMark® devices.

The LonMark® system gives the user the ability to administrate and manage the device from anywhere on the LonMark® network. It also allows other devices to communicate and share information with the PLON.

PLON OPTIONAL EQUIPMENT



Remote Interface Module

Provide the user with the space temperature, space humidity, occupancy mode, unit status and timed occupied duration remaining. Can be ordered with or without an LCD display. Comes standard with temperatures sensor, can be upgraded to include humidity sensor.



Occupancy Detector

Used in conjunction with or without scheduler. During normally unoccupied periods will force the unit into a time occupied mode when occupancy is sensor for a programmed time duration.



CO₂ Controller

Prevents over-ventilating a room and wasting energy. Ventilation rate is controlled by the actual number of occupants, not the rooms maximum occupancy. Programmable to have complete outdoor damper control or partial. Partial damper control will only close the outdoor damper to the programmed minimum position.

MAIN FEATURES

- Heating - Modulated or 2-Stage
- Cooling - Modulated or 2-Stage
- Supply Fan - Modulated or Single Speed
- ERV Fans - Single Speed Supply & Exhaust
- Outdoor Damper - Modulated
- Digital Temperature Sensors - 0.06°C/0.11°F Resolution
 - Space Temperature
 - Discharge Air Temperature
 - Outdoor Air Temperature
 - Return Air Temperature
 - ERV Relief Air Temperature
- Occupancy Sensor Input (optional)
- Window/Door Contact Input (optional)
- 2 x Current Sensor Inputs
- CO₂ Controller Input (optional)

OPERATING MODES

- Occupied
- Unoccupied
- Stand-by
- Timed Occupied
- Slave

REMOTE INTERFACE FEATURES

- LCD Display
- Temperature Sensor
- Humidity Sensor
- Setpoint Adjustment
- Mode Indicator
- Timed Occupied Override