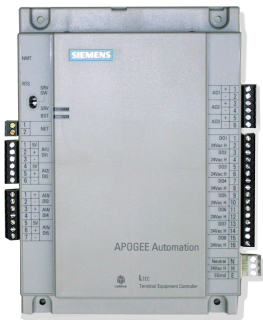


LTEC Unit Ventilator Controller



Description

The LonMark[®]-compliant LTEC Unit Ventilator (UV) Controller provides direct digital control of unit ventilators. The LTEC UV Controller is designed to reside on the Siemens Building Technologies, Inc. APOGEE[®] for LonWorks[®] network, providing seamless interaction with all LonMark products. The LTEC UV Controller offers cost-effective flexibility by allowing selection of the best-point configuration platform designed to meet any UV application requirement.

Features

- Conforms to the LonMark interoperability guidelines enabling information sharing with other LonMark products
- LonMark-compliant with Space Comfort Controller functional profile number 8505
- Field-selectable parameters allow entry and updating of setpoint and control parameters via the APOGEE Interface
- Network-wide monitoring and commanding from the Room Sensor and/or LTEC controller
- Two I/O platform styles allow cost-effective selection to meet your application needs

- Advanced PID control minimizes offset and maintains tighter set-point control
- Return from power failure without operator intervention

Applications

The LTEC UV Controller can be configured to control the following unit ventilator applications:

- Cooling and outside air damper
- Heating and OA damper
- Shared cooling / heating and OA damper (2 pipe)
- Heating coil and cooling coil and OA damper (4 pipe)
- Heating coil and cooling coil and OA damper with face/bypass damper (2/4 pipe)
- Shared cooling/heating coil, plus electric heat and OA damper (2 pipe)
- Shared cooling/heating coil, plus electric heat and OA damper with face/bypass damper (2 pipe)

Additionally, depending on availability of input and output capacity, space lighting and occupancy sensors can be controlled via these applications.

Hardware

Controller Board

The Controller Board is available in the following styles:

- 4 Inputs, 6 Digital Outputs, 1 Room Sensor
- 5 Inputs, 8 Digital Outputs, 3 Analog Outputs, 1 Room Sensor

The Controller Board is a Neuron-based platform that executes a zone-level application and allows communication to all LonMark devices. The controllers are shipped with pre-loaded applications, reducing engineering start-up time.

Room Sensor

The room sensor connection to the controller board consists of a quick-connect RJ-11 jack. This streamlines the installation and reduces the LTEC Controller's start-up time.

Spare Input/Output Points

The LTEC Controller, depending upon the application used, may have up to 3 input and 2 output spare points available. These points can be used to perform local connection and network control for devices located in close proximity to the LTEC Controller, therefore reducing costs associated with installation.

The controller board is available in either 4 IN / 6 DO or 5 IN / 8 DO / 3 AO styles.

Specifications

Processor Type	Neuron 3150
Processor Clock Speed	10 MHz - Neuron
Network Communication Speed	TP/XF-10 (78.8K bps)
Memory Size	49 K Flash Memory 10 K SRAM
Local Network Communication Interface	Lon port
Voltage Requirements	24 Vac @ 50/60 Hz
Power Consumption	5 VA plus loads
Ambient Operating Environment	+32°F to +122°F (0°C to +50°C) 5 to 95% RH (Non-condensing)
Agency Listings	UL/CUL 916 PAZX/PAZX7 (Enclosed Energy Management)
Regulatory Compliance	FCC Part 15, Class B CISPR 22 Class B CE Mark
Dimensions:	8.78" H x 6.94" W x 1.85" D (223 mm x 176 mm x 44 mm)
Weight	1.13 LBS (.51kg)

Wiring Recommendations

Input/AO	20 to 22 AWG
DO	18 to 22 AWG
Power	16 to 18 AWG
LonWorks Network	22 AWG Level IV per NEMA standards

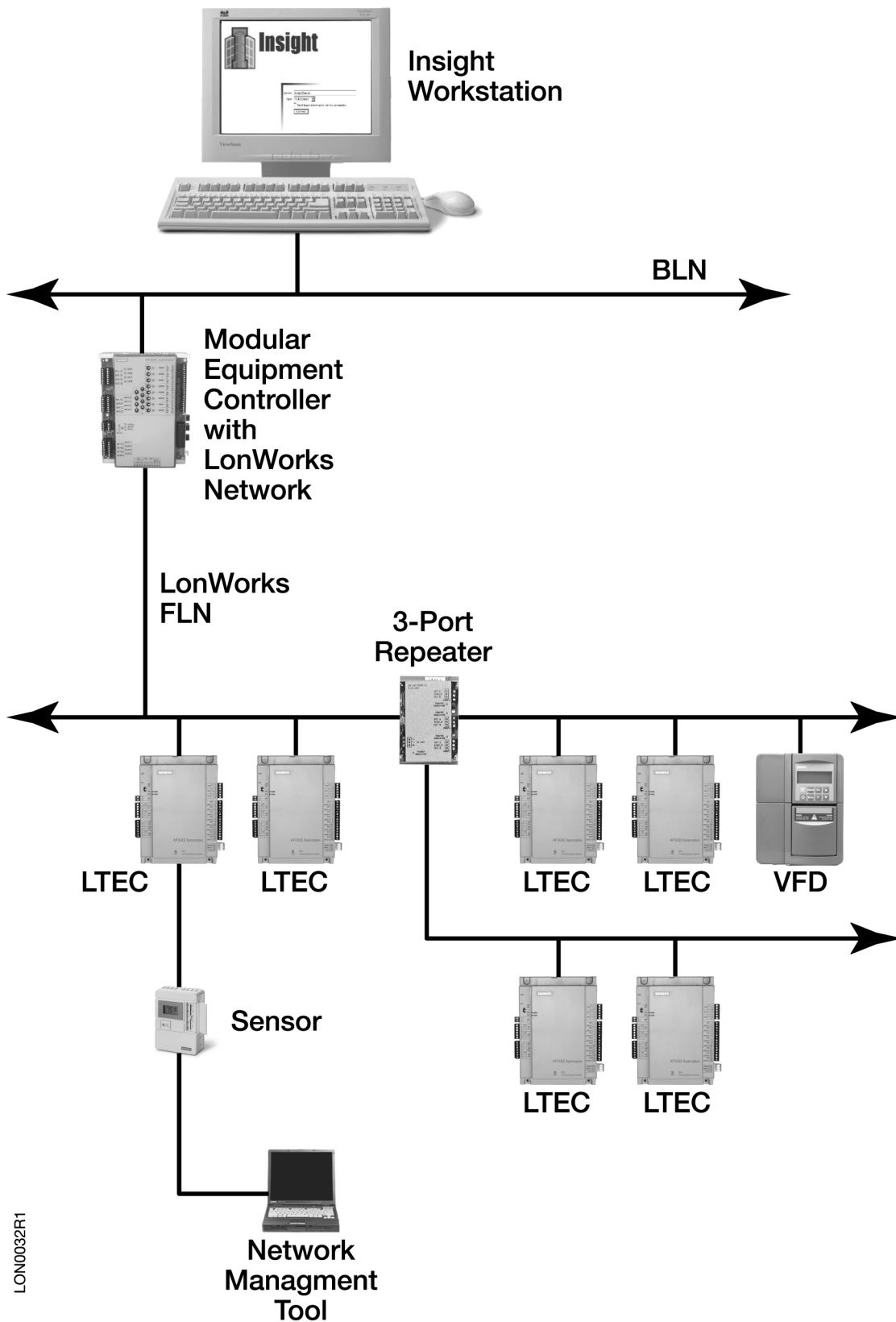
Transformer Requirements and Recommended Voltages

Type	Class 2, 24 VAC, 50/60 Hz
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Ordering Information

Controllers

Description	Product Number
LTEC UV CH/HW Controller 4IN 6DO 4 IN (2) 100 K Ω Thermistor or Dry Contact/ (2) 0-10 Vdc, 4-20 mA or Dry Contact 6 DO 24 Vac, 12VA, Triac 1 RS 10 K Ω Thermistor Room Sensor Module	550-540
LTEC UV DX Controller 4IN 6DO 4 IN (2) 100 K Ω Thermistor or Dry Contact/ (2) 0-10 Vdc, 4-20 mA or Dry Contact 6 DO 24 Vac, 12VA, Triac 1 RS 10 K Ω Thermistor Room Sensor Module	550-541
LTEC UV CH/HW 5IN 8DO 3AO 5 IN (2) 100 K Ω Thermistor or Dry Contact/ (3) 0-10 Vdc, 4-20 mA or Dry Contact 8 DO 24 Vac, 12VA, Triac 3 AO 0-10 Vdc 1 RS 10 K Ω Thermistor Room Sensor Module	550-542
LTEC UV DX Controller 5IN 8DO 3AO 5 IN (2) 100 K Ω Thermistor or Dry Contact/ (3) 0-10 Vdc, 4-20 mA or Dry Contact 8 DO 24 Vac, 12VA, Triac 3 AO 0-10 Vdc 1 RS 10 K Ω Thermistor Room Sensor Module	550-543
LTEC UV w/FC BP Controller 5IN 8DO 3AO 5 IN (2) 100 K Ω Thermistor or Dry Contact/ (3) 0-10 Vdc, 4-20 mA or Dry Contact 8 DO 24 Vac, 12VA, Triac 3 AO 0-10 Vdc 1 RS 10 K Ω Thermistor Room Sensor Module	550-544
Documentation	
Description	Product Number
LTEC Owners Manual	550-311
LonWorks for APOGEE Library CD	550-312



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