

FULLY PROGRAMMABLE HVAC CONTROLLER

OVERVIEW

The HVAC controls market requires a DDC controller that provides consolidated control in a fully programmable, feature-rich LonMark® certified device.

The Circon™ UHC-300 unites a variety of configurable control blocks combined with the power of the Circon BASIC programming language to provide exceptional application flexibility. The UHC-300 is all you need in a 22-point DDC controller.

APPLICATIONS

Use the UHC-300 to implement tailored control applications for unique or custom HVAC mechanical designs. The UHC-300's 12 universal inputs, 10 universal outputs and all control blocks are easily configured using simple Windows®-based software. Flexible alarm, trend, schedule and PID control blocks can be used to quickly create effective control and monitoring solutions.

Circon's powerful BASIC programming language can be used, along with the configurable control blocks and the input/output points to implement more complicated control sequences. Circon BASIC is flexible and powerful, allowing a user with limited programming experience to create tailored control sequences for chilled water systems, condenser loops, heating water systems, packaged air handling units, built up air handling units or any custom HVAC mechanical design.

The Windows-based configuration and viewer software provided with the UHC-300, complemented by the Circon BASIC Compiler, is all fully compatible with Echelon® Corporation's LNS® software.

ORDERING INFORMATION

Part number: 10-0367



FEATURES AND BENEFITS

- Seamless integration into interoperable LonWorks® networks
- Fully programmable with easy to use Circon BASIC programming language
- 12 universal inputs configurable for voltage, current, resistance and dry contacts
- 10 universal outputs configurable for voltage, current, and digital
- Onboard real-time clock allows for time-based events, data logging, or network master operation
- All memory is protected with a lithium battery
- Quick network access through an audio jack
- Faster, easier to use LNS plug-ins
- Auxiliary 15 VDC output for powering peripheral devices
- Adaptable for stand-alone or networked operation



LONMARK® 3.3



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SPECIFICATIONS

I/O CAPABILITY

12 Universal Inputs 10 kΩ thermistor, 1 kΩ RTD, 4–20 mA current, 0–10 VDC, digital (dry contact)
 10 Universal Outputs 4–20 mA current, 0–10 VDC, digital. Maximum drive 100 mA per output

COMMUNICATIONS

Transceiver Echelon Free Topology Transceiver (FTT-10A @ 78 kbps)
 Wire type AWG22 to AWG16 stranded (use only twisted pair wiring and copper conductors for network)
 Neuron® 3150, 10 MHz

POWER SUPPLY

Controller 2.0 A, 24 VAC 50–60 Hz or 24 VDC
 External loads 15 VDC output terminal provides 300 mA maximum
 Fuse 2.5 A slow-blow (Bussman GMD-2.5A, Littlefuse 23902.5A)
 Power fail protection Lithium battery retains data in RAM and clock

MECHANICAL

Operating temperature 32°F to 122°F (0°C to 50°C)
 Relative humidity 5% to 95% RH (non-condensing)
 Weight 1 lb. 6 oz. (617 grams)
 Enclosure dimensions: 1.9" x 5" x 10.3" (48 mm x 127 mm x 262 mm); Enclosure material: PVC, inflammability class V0 (UL94)
 Wire type AWG 22 to AWG 16 stranded. Use copper conductors only.
 Mounting DIN rail

AGENCY LISTINGS AND REGULATORY COMPLIANCE

Class II device (when powered by class II supply)
 CSA 22.2 #205-M1983, #950-M89
 UL 916 certification for Energy Management Equipment
 Part 15, Part J, Class A of the FCC rules for Radio Frequency Devices
 EMC Directive 89/336/EEC
 LonMark 3.3 certified

CIRCON SYSTEMS CORPORATION

110 – 6660 McMillan Way, Richmond, BC, Canada V6W 1J7
 telephone 604.232.4700 technical support 1.877.350.2299 facsimile 604.232.4747
 toll free 1.800.338.1866 website www.circon.com



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