Specification Sheet
Universal Commercial Controller

UCC

For customizable control of HVAC systems



The UCC is a commercial controller designed to control a variety of building HVAC systems. It can handle up to 2 heating and 3 cooling stages for a conventional system, or up to 4 stages of compressors in a heat pump system. The UCC can precisely control heating and cooling stages, employ economizer control for energy savings, and is programmed with a 365-day calendar for both weekly and date-specific events. It is equipped with a variety of auxiliary inputs and outputs to better interface with your entire system, and can communicate via Modbus for better system integration. The UCC can also utilize a variety of sensors to further improve its capabilities.

FEATURES:

- 2H/3C Control for Heat Cool systems
- 4 Stage Compressors or 3 Stage with 1 Aux Heat Control for Heat Pump or Hybrid systems
- 1 Customizable Auxiliary Relay Output
- 2 Customizable Auxiliary Relay Inputs
- 1 Customizable Analog 0-10V Inputs
- 2 Customizable Analog 0-10V Outputs
- Modbus Communications
- Basic and Full Enthalpy Economizer Control
- 7-Day Programming with up to 2 Events per Day
- 365-Day Calendar
- 30 Perpetual or One Time Holiday Events
- After Hours Control

SPECIFICATIONS

Input Voltage	24 +/- 15% 50/60 Hz
Operating Temperature	32°F - 130°F
Operating RH	0-95% (Non-Condensing)
Storage Temperature	32°F - 170°F
Size	4.33” x 4.33” x 2.50” 4.33” x 7.08” x 2.50” with Terminal Covers Fitted
Control Range	41°F - 122°F
Max Equipment Stages	HP Mode: 4 Compressors HC Mode: 2 Heat 3 Cool
Anti-Cycle Timer	Off, 2, 3, 4 or 5 Minutes
After Hours Timer	Off To 12 Hours
Memory Type	Non-Volatile 256K
Clock	12/24 Hour 7 Day with 365 Calendar Backup Battery for Clock
Backup Battery Life	8 Years typically under external power 1 ~3 years unpowered
Holiday Events	30
LCD	32 x 132 Graphical - LED Backlight
Relays	Fan 12A Resistive 240V Max - Volt Free All Others 5A Resistive 240V Max - Volt Free
0-10V Output	10mA Max
0-10V Input	100k Impedance
Room & Outside Sensor	10K NTC Type II, 2-Wire
Communicating Sensor	4 Wire - 400m Maximum with Control Function 10K NTC type II RH 10~98% RH 2%.
Optional RF Sensor	2xAAA Batteries 18 Month Life 10K NTC Type II Range- 164yd Open Air, 43yd Indoors Frequency 433 MHz - 2 Way with Error Checking
Communications	Modbus Baudrate 4.8/9.6/19.2k Address Range 0 –255 Parity Odd / Even / None

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