



Intellus Ultra



Features

- Single board solid state design
- Low energy consumption
- Highly visible display with LED indicators
- Highly accurate PID temperature, humidity, auxiliary/lighting control
- Integrates with Intellus Web Server for remote monitoring/programming and email alarm notification via Windows based PC or Windows Mobile 5.0 Treo™ 700 WX smart phones
- Four password protected security levels
- Non-volatile memory for programs and parameters. Battery backup for volatile memory.
- 16 total programmable on/off outputs for lighting or other applications. 7 of these outputs are configurable for dimmable lighting.
- Multiple alarms provide experiment protection and notification of specific chamber events
- Multiple programming styles including diurnal, 24-hour based real time and non 24-hour circadian (elapsed time)
- Non-ramping and ramping control
- Store up to 560 total program steps and 70 programs
- Program sequencing
- Calibration offsets

Alarm Features

- High/low temperature safety alarms shut off all chamber control components
- High/low temperature set point deviation alarms
- Optional high/low humidity and auxiliary alarms
- Light lifetime alarm
- Troubleshooting alarms
- Optional door open timer alarm

Calibration Offsets

- Multiple temperature calibration offsets
- Day/night humidity and auxiliary offsets

Additional Features

- Set and maintain static set points for temperature, humidity, auxiliary and lighting
- Automatic defrost
- Light lifetime displays accumulated bulb life
- Help menus
- Log of accumulated usage hours for each light output
- External mechanical timer (optional)
- External safety alarm (optional)
- Three analog input channels

INTELLUS ULTRA

Controllers

Diurnal Programming Style

- Specify day (start and end times) and enter day and night set points for temperature, humidity and auxiliary. All lights will be on during the day period and off during the night period.
- Diurnal program will continually loop over a 24-hour period.

24-Hour Programming Style

- Programs run in real-time over a 24-hour period
- 500 total program steps
- 50 total programs
- Non-ramping and ramping profiles
- Program sequencing
- Single program will continually loop over a 24-hour period and sequenced programs will loop the entire sequence

Non 24-Hour Circadian Programming Style (Elapsed Time)

- Program steps run in terms of elapsed time
- Ability to create programs that run for more or less than 24 hours
- 60 total program steps
- 20 total programs
- Minimum step time is 1 minute. Maximum step time is 99 hours and 59 minutes.
- Non-ramping and ramping profiles
- Program sequencing
- Single program will continually loop. Sequenced programs will continually loop the entire sequence.
- Two calibration offsets per channel (lights on and lights off)
- Automatic defrost

Board Design

- 32 digital outputs
- Three digital inputs
- Single board solid state design with no moving parts
- Ten-key membrane keypad with integral LEDs
- Two line by 20 character vacuum fluorescent display
- Piezoelectric buzzer and message display for alarms
- No maintenance required
- Easy field replacement
- Meets UL 508 requirements
- Meets UL3101 Laboratory Equipment requirements
- Meets EN61326 Electrical Equipment for Measurement, Control and Laboratory Environment requirements



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