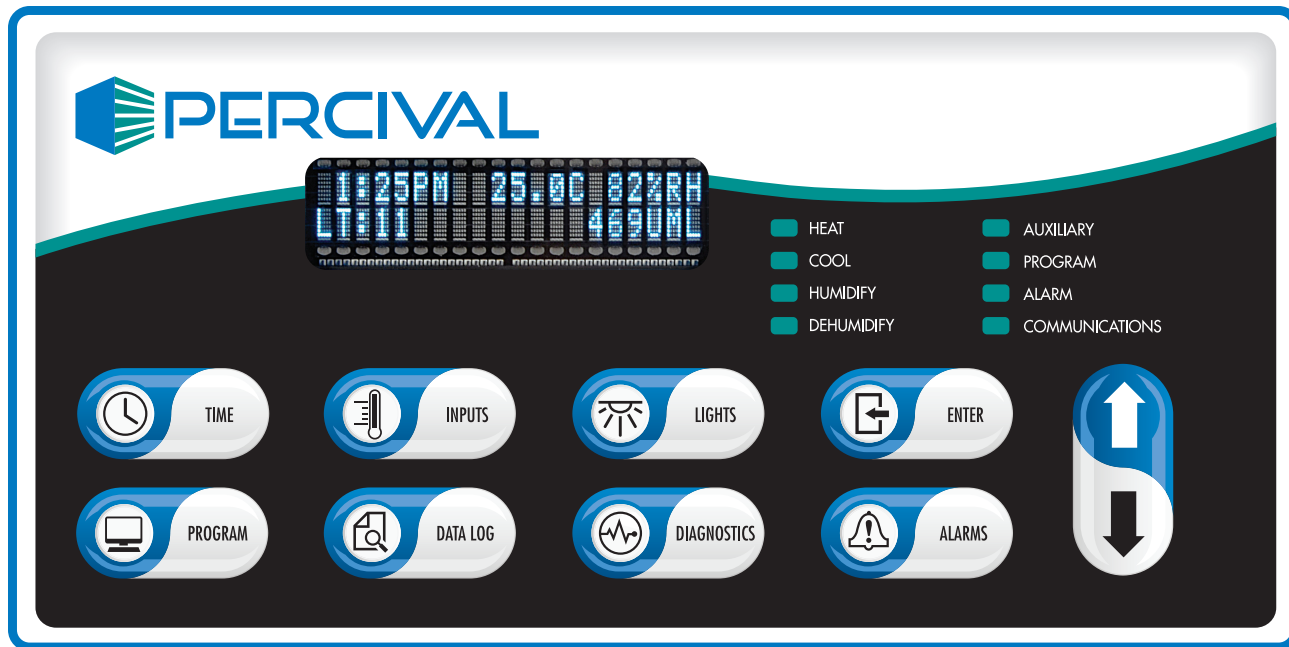# controllers

IntellusUltraConnect C9 (remote connectivity) and IntellusUltraConnect C9T (android-based technology)

IntellusUltraConnect C9 (remote connectivity)

IntellusUltraConnect C9T (android-based technology)

more choices. more control. more data. all available in the power of your hand!

Percival Scientific has built a legacy of providing the life science market with the industry's best control system platforms. Through the years we've listened, tested and refined to now introduce the most advanced controller yet – the IntellusUltra!

The IntellusUltra delivers four choices of control systems letting you choose the options of what data to collect and how it is collected. Information on two of those choices, the IntellusUltraConnect C9 (remote connectivity) and the IntellusUltraConnect C9T (android-based technology), is listed on the following page, allowing you to pick the one that fits your research needs and budget.

controllers IntellusUltraConnect C9 and IntellusUltraConnect C9T

IntellusUltraConnect C9 (remote connectivity)

- Single-board electronic solid state design
- Programmable controller via any of the following programing Styles:
  - Modify and run manual settings
  - Configure modify and run diurnal program
  - Configure modify and run 24 hour multi-steps program in ramping mode
  - Configure modify and run 24 hour multi-steps program in non-ramping mode
  - Configure modify and run non-24 hours program in elapsed time
  - Sequence multi-step programs (multiple programs can be linked together to simulate natural conditions)
- Dual experiment protection via integrated yet independent temperature limit shutdown
- Two calibration offsets per input channel (one for lights on and one for lights off)
- Simple field firmware upgrades
- Light lifetime maintenance:
  - The controller maintains the accumulated hours each light output has been activated
  - The accumulated hours can be reset for each output
- Three wires RTD sensor inputs.
- Highly visible alarm display with audible buzzer
- Configure defrost settings (if applicable)
- Power failure event logging
- Ambient temperature monitoring
- Durable 10 keys industrial keypad with VFD display and LED indicators
- Available programmable outputs allow for user specific control requests (i.e. programmable electrical outlets)
- Controller can be secured with four-level password protection
- View current set-points and process values, alarm status, alarm settings, program operation mode, program steps and controller time
- Digital lighting control
- Field-upgradable I/O expansion
- Backwards compatibility with Intellus series controller
- Improve troubleshooting with upfront Diagnostics Menu
- On board data logging exportable to USB drive
- Data is logged every minute to an onboard SD card which stores up to ONE YEAR worth of data
- Remote connectivity for chamber control and monitoring with e-mail notifications (requires internet connection)

- Built-in web server is optimized to interface with major web browsers
- LAN/WAN/Bluetooth ready
- Modbus Connection for monitoring via Building Management Systems (BMS)
- Cloud-based data logging
- Alarms monitoring and programming capabilities from a local or remote location web browser
- Customizable email notifications for chamber status and alarms
- On board web-server key features includes:
  - View of current set points and process values, alarm status, alarm settings, program operation mode, program steps and controller time
  - Modify and run manual settings
  - Modify alarm settings
  - Configure defrost settings (if applicable)
  - View and reset light lifetime for lamp maintenance
  - Configure, modify and run diurnal program
  - Configure, modify and run multi-step program
  - Sequence multi-step programs
  - Modify calibration offsets
  - Configure security logins/passwords.
  - Configure e-mail addresses for alarm and current chamber status notifications (Note: Requires an internet connection)

IntellusUltraConnect C9T (android-based technology)

- High definition IPS (1280 x 800) touch screen interface
- Graphing of data (displays last 24 hours)
  - Trend graphs viewed directly on screen for both Set-point and Actual conditions
- Data is automatically logged every minute to an onboard SD card. Data is exportable for viewing in tabular format (controller SD card stores up to ONE YEAR worth of data)
- Android-based app allows for user friendly programming interface
- Graphical interface for convenient, EASY programming and viewing of data
- Highly visible alarm display