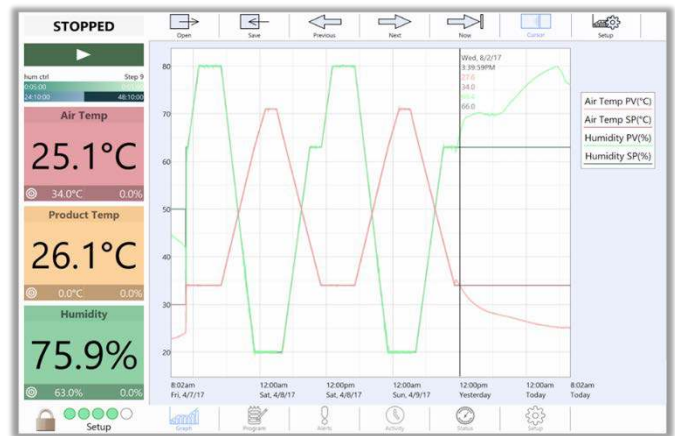# russellsOne

COLOR TOUCH SCREEN CONTROLLER

The russellsOne color touch screen controller is the most powerful state of the art chamber controller/microprocessor ever developed. Simple user interface with powerful data collection gives this controller faster screen access, faster programming and unprecedented flexibility. Under the hood is a world of data being collected for easy USB export. Combining off the shelf hardware and modern engineering makes this controller one of a kind. From benchtops to drive-in chambers, the "r1" is the only controller you need and is packed with features such as:

- 12.3" PixelTouch touch screen display
- High performance Intel Core i5processor, 2.4 GHz, solid state drive
- 4 channels of PID control w/product temperature control
- 1GB Ethernet via Wi-FI 802.11ac, Bluetooth wireless and RJ-45
- User definable graphical trending & process data real time
- Data logging of up to 64 inputs (optional) with virtual unlimited file storage
- Data exported as .csv or .png image
- Up to 32 configurable digital inputs & outputs
- Settings for chamber systems monitor and preventative maintenance
- Server enabled remote control from Lab View or other custom programs
- Multiple mounting options
- Easily retrofitted to most existing chambers
- Password protection for multiple users

SPECIFICATIONS

CHANNELS:
4 Process Variables

PRODUCT TEMPERATURE CONTROL:
Yes

OPERATING SYSTEM:
Windows 10 Pro

PROCESSOR:
Intel Dual Core i5 Processor

DISPLAY:
12.3", 2736 x 1824, 267 ppi
High Density Display

STORAGE:
128GB SSD

COMMUNICATIONS:
1 GB Ethernet Via RJ-45
WiFi 802.11ac

USB:
(1) 3.0 For Data Transfer

POWER REQUIREMENTS:
In:100-240 VDC/50-60 HZ
Out: 12V DC/2.5a

OPERATING TEMPERATURE:
5°C(41°F) to 40°C(104°F)
8% to 85% RH @40°C Non-Condensing

COMPLIANCE:
CE

ACTIVITY LOG:
Logs Basic Events

OPERATING MODES:
Stop, Manual, Profile, Guaranteed Soak,
Ramp, Loop, Wait.

PROGRAM CAPACITY:
999 Loops
Program On The Fly

DATA LOGGING:
Logs up to 8 channels (up to 64 optional)
User Definable for Trending Graph and Exporting
(1 second intervals)

GRAPHICAL TRENDING:
Program and Process Data
Real Time

ANALOG INPUTS:
64 Including Inputs Used By System
+/-10V
+/-20mA
4-20mA
T,J, or K type Thermocouples
Optional: RTD (PT100)

ANALOG OUTPUTS: (Optional)
+/-10V
0-20mA

DIGITAL INPUTS: (32 depending on config.)
24VDC

DIGITAL OUTPUTS: (32 depending on config.)
Contact: 2A Max. Resistive, 80VA Inductive

PROFILE DELAY START:
1-999 hours

ALARMS:
32 User Definable w/History