

PRODUCT DATA SHEET

➤ **CRD Cleanroom Control and Monitoring Systems**

Cleanroom Design LLC offers a PLC based control and monitoring system for cleanrooms in all industries. The main processors are Allen Bradley PLCs, along with power supplies, expansion blocks and other wiring components. The package includes Dwyer pressure, temperature and relative-humidity transmitters as well as local digital displays. All components are protected by fuses, circuit breakers and surge protectors. We offer both a small and a large panel depending on the size and scope of each particular project. Multiple panels can be combined to add additional capacity and can be displayed through one or multiple touch screens.



➤ **Small Standard Panel Features**

Model #: KREA16D16SM

- One standard small control enclosure with microprocessor-based controller
- The control panel will consist of 1 programmable logic controller, 16 analog inputs, 2 analog outputs, 5 isolation relays, 16 discrete outputs, 16 discrete inputs, one 5 port ethernet switch
- Includes one 12-inch full-color touchscreen
- The screen will display a 3D schematic of the room layout, sensor locations and real-time zone temperatures, refrigerator and freezer temperatures, room relative humidity, and room differential pressures
- The screen will provide a touch-pad for password-protected access for programming temperature, relative humidity and alarm set points
- The panel will control and monitor Air Handlers, Condensing Units, Exhaust Fans, Humidifiers, Dehumidifiers, Dampers, Heat/Reheat

➤ **Large Standard Panel Features**

Model #: KREA24D24LG

- One standard large control enclosure with microprocessor-based controller
- The control panel will consist of 1 programmable logic controller, 24 analog inputs, 2 analog outputs, 15 isolation relays, 24 discrete outputs, 16 discrete inputs, one 8 port ethernet switch
- Includes one 15-inch full-color touchscreen
- The screen will display a 3D schematic of the room layout, sensor locations and real-time zone temperatures, refrigerator and freezer temperatures, relative humidity, and room differential pressures
- The screen will provide a touch-pad for password-protected access for programming temperature, relative humidity and alarm set points
- The panel will control and monitor Air Handlers, Condensing Units, Exhaust Fans, Humidifiers, Dehumidifiers, Dampers, Heat/Reheat

➤ **Optional Features**

- Real-Time Alarming via SMS Messaging and Email to select personnel and Cleanroom Design Offices
- Interfacing with existing or new Building Automation Systems (BAS)
- Remote Monitoring and Control Software for use on any PC or Mac
 - Run Trends, Charts, Reports of Stored and Logged Data
 - Search, display and print environmental values that are stored every 60 seconds for all values being monitored
 - Custom Report Development and Generation
 - Search, Display and Print Alarm History
 - Individual Usernames and Passwords with controlled levels of access for personnel
- Process Equipment and Process Support System Monitoring and Time Stamping
- Sequential and Continuous Particle Monitoring
- Customized Control and Monitoring Panels based on client's specific application and design

PRODUCT DATA SHEET

➤ Sample Remote Monitoring and Touch Screen Views

