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Modular Classroom Controls



Modular classrooms have become a standard in the construction and expansion plans of school districts. The mobility of these structures have prevented operators from realizing the benefits found with building automation systems. Although complete controls may be available in the permanent school building, wiring restrictions have kept the modular units as stand-alone controls with little or no monitoring and control abilities. Triangle MicroSystems has the tools you need to properly monitor and control your facilities.

You're In Control Now

Introducing the BASYX Modular Classroom Control System ...

System Application & Benefits...

Triangle MicroSystems is pleased to introduce you to our line of automation controls designed for use in modular classroom applications. The system provides complete control of all HVAC equipment and lighting, and will provide monitoring of temperatures, humidity and air quality.

- BASYX RFW CONTROLLER**
- Wireless Data Bus
 - HVAC Control
 - Lighting Control
 - Environmental Monitoring
 - Expandable

The Modular Classroom Control System is based around the BASYX RFW stand-alone controller, which provides a wireless data bus connection. The wireless capability eliminates the need for communications cabling to be installed between controllers.

The BASYX RFW controller is a product developed for heat pumps, fan coil units, package HVAC unit and lighting control. The RFW utilizes "Zigbee" wireless technology for data bus communications between controllers, eliminating costly or prohibitive installation of hard-wired cables.



The controller provides time-of-day scheduling, temperature control and environmental monitoring along with complete electrical usage control and reporting. The RFW contains all on-board firmware, clock and memory for total stand-alone operation, and does not rely on a central controller for operation.

The RFW contains five (5) SPDT relay outputs for binary control, each with a Hand-Off-Auto jumper for local control, four (4) universal inputs for analog or binary contact monitoring and two (2) digital meter inputs. Four (4) on-board analog outputs allow control of 0-10vdc modulating dampers or valves.

An on-board USB connection provides direct interface with the RFW, and allows full system communications when interconnected with additional BASYX controllers through the wireless bus or twisted pair cable.

The BASYX system is maintained and monitored through a Windows based interface program, providing total system interrogation, programming and report generation.

The RFW may be incorporated into a full direct digital control system with other BASYX controllers.

Triangle MicroSystems works closely with our distribution network, providing quality systems meeting the requirements of system operators.

The system will provide complete temperature control of package HVAC units, unit ventilators or other equipment types. Lighting may be controlled by schedule or light level, and exhaust fans may be activated when required. Complete monitoring of environmental conditions is performed by the BASYX system, including temperature, humidity and air quality. Control algorithms are developed to control equipment to maintain safe levels of operation. Historical reports provide operators with the information required to insure a quality environment for learning.

The system is available in a variety of mounting options, completely programmed and wired to terminal strips. All power supplies required are included. Complete application drawings for the field personnel insure a clean and easy installation.



Interface with the system is through TriComm, a Windows based graphics interface program. Operators may connect directly from a laptop/desktop computer through our RWM wireless modem, or can connect directly through the on-board USB port. All software is license free, and may be installed on as many computers as the owner desires.

Triangle MicroSystems authorized distributors and dealers offer a multitude of value-added services to further enhance your installation. Service agreements can be provided for monitoring and report generation, alarm monitoring and mechanical services. TMS fully supports all programs provided by our network, and assistance is always available at the factory level. Extended warranty contracts are offered to protect your investment for years to come. Complete project assistance in reference to application or installation can be performed by the distribution network.

- CONTROL & MONITORING**
- HVAC Control
 - Lighting Control
 - Environmental Monitoring
 - Air Quality Monitoring

- PACKAGING**
- Custom Sizes
 - Power Supplies
 - Programmed & Tested
 - Installation Drawings

- INTERFACE**
- Graphical Interface Software
 - Wireless Modem
 - USB Port

- VALUE ADDED SERVICES**
- Monitoring Contracts
 - Alarm Monitoring
 - Mechanical Services
 - Extended Warranties



TMS is a proud member

Call your local representative to find out more about the BASYX modular classroom control system