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Lighting Environmental
Modular Classroom Controls



- Improve Indoor Air Quality
 - Optimize Teacher/Student Environment
 - Lower Operating Costs
 - Increase Equipment Efficiency and Life Cycle

You're In Control Now

Introducing the BASYX Modular Classroom Control System ...

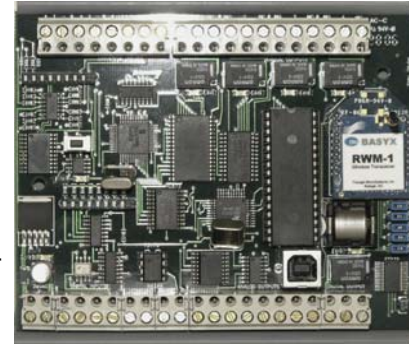
System Application & Benefits ...

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.

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

The Modular Classroom Control System is based around the BASYX RFW stand-alone controller, which provides a wireless data bus connection and eliminates the need to install communications cables between classrooms.

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.

BASYX 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.

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.

- **No communication wiring needed between main campus and mobile classroom**
- **Interface with any existing HVAC or lighting system**
- **Fully compatible with existing control systems**
 - Separate access through same or non-dedicated computer
 - May use laptop to directly monitor
 - BACNET compatible
 - Interface with school intranet/internet
- **Choice of monitoring/controlling**
 - Temperatures
 - Lighting
 - CO2 Levels
 - Humidity
 - HVAC & Lighting control
 - Airflow & exhaust control
 - HVAC filter status - Change when necessary
 - Air quality levels
 - Optional local classroom setpoint and override control
 - Occupancy sensor operation
 - Optimized startup for early morning purge
 - Energy monitoring
 - Quickly access historical operation data
- **Remote notifications via pager, cell phone or email**
 - Emergency and alarm notification
 - Service notification via runtimes
- **Easy Installation by building maintenance personnel**
 - Factory assembled and programmed modules
 - TMS helpline for installation assistance
 - Minimal personnel training
- **Completely transportable**
 - Controls remain with modular unit when relocated
- **Reduce Service costs using remote monitoring**
 - Analyze problems before sending service personnel
 - Quick response to complaints
 - Extensive historical reporting
- **Free software updates for full warranty period**
 - Full five (5) year product warranty
 - Factory service assistance via modem or internet
 - Free license free initial software package
 - Yearly system evaluation and review
 - Free monthly reporting for one (1) year
 - Monthly monitoring contract available after 1 year

- APPLICATION & BENEFITS**
- No Communications Cable
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 - Existing System Compatible
 - Monitoring & Control
 - Remote Notifications
 - Easy Installation
 - Factory Assembled Modules
 - Minimal Training
 - Completely Transportable
 - Free Software
 - 5 Year Product Warranty