



iWorX, the Intelligent Small Building System

iWorX is specifically designed for small buildings. It brings the power of integrated HVAC/Radiant control, lighting control, card access control, security and energy monitoring to small buildings. With the iWorX color touchscreen interface, Web-based remote access, and emailing alarming, you will spend less time managing your control system and more time managing your business.

Local Control Interface (LCI-2)

The LCI-2 is a color touchscreen user interface that allows local and remote access to the system. The LCI-2 communicates with controllers over a LONWORKS® network. Its application includes an operator interface, web server, global time of day scheduling and configuration functions. The LCI-2 web server interface enables access to your system via a local network (LAN) or the Internet, depending upon the connections made to it. Using these features you can use any computer with a standard web browser to view information about your system, and make changes to all configuration settings. The LCI-2 can also be configured to send e-mails notifying you of alarms as they occur.

Modules

ACU-1

The ACU-1 is a self-contained controller for single door access control. Use the ACU-1 to electrically control passage through a physical barrier such as a door or gate.

AHU-1

The AHU-1 is a self-contained controller for a single zone air handler (AHU-1) with a modulated or digital economizer. The AHU-1 can be used to control air handler units with modulated cooling, modulated heating, and a two-position or modulated economizer. Individual occupied and unoccupied temperature setpoints are provided for both heating and cooling cycles.

ASM-2

The ASM-2 is a self-contained device for monitoring auxiliary sensors. The ASM-2 provides measurements for outdoor air temperature, outdoor humidity, indoor air humidity, unit enable, supply water temperature and energy consumption data to other devices on the network.

ALM-1

The ALM-1 is a self-contained device for monitoring auxiliary inputs and providing alarm information to the network. Additionally, the controller can energize a local output when there is an alarm. Each of the controller's eight inputs can be configured as either thermistor or switch inputs.

BLR-1

The BLR-1 boiler controller is a stand-alone microprocessor based controller for up to four single-stage boilers or two-stage boilers. The application includes control of interior radiant heating and exterior snow melting systems. Boiler stages and system pumps are controlled by digital outputs. An analog output is provided for controlling a mixing valve or pump for a secondary loop.

BZU-1

The BZU-1 boiler zone unit is a microprocessor based controller for adding additional heating zones to hydronics systems that are being controlled by an iWorX BLR Series boiler controller. It may also be used as a stand-alone zone controller. This application includes control of up to five heating zones or snow melt zones and a common heat source.



Innovex Technologies
511 Braddock Avenue
Turtle Creek, PA 15145
www.innovextechnologies.com

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CCU-1

The iWorX CCU-1 is a self-contained interoperable controller for supervising a central chiller unit. The CCU-1 controls one air-cooled chiller or a water-cooled chiller with a cooling tower.

DXU-1, DXU-2

The iWorX DXU-1 and DXU-2 are self-contained controllers for single zone commercial rooftop HVAC units. The DXU-1 controls a packaged rooftop DX unit with up to two stages of cooling and two stages of heating. The DXU-2 controls a packaged rooftop DX unit with up to four stages of cooling, and controls either two stages of heating or a floating point heating valve. The DXU-2 also controls a modulated or two-position economizer. Individual temperature setpoints are provided for occupied and unoccupied heat and cool cycles.

DXU-3

The DXU-3 is a self-contained package unit controller for single zone DX package units and air handler units with an economizer. The DXU-3 can be configured for up to 4 stages of cooling, modulated or floating point cooling valve, 2 stages of heating, modulated or floating point heating valve. The DXU-3 also controls a modulated or two-position economizer. Individual temperature setpoints are provided for occupied and unoccupied heat and cool cycles. In addition the DXU-3 provides dehumidification to the space.

DXU-4

The DXU-4 is a self-contained package unit controller for single zone DX package units and air handler units with a digital economizer. The DXU-4 can be configured for up to 2 stages of cooling, modulated or floating point cooling valve, 2 stages of heating, modulated or floating point heating valve. The DXU-4 also controls two-position economizer. Individual temperature setpoints are provided for occupied and unoccupied heat and cool cycles. In addition the DXU-4 provides humidification and dehumidification to the space.

FCU-1, FCU-2, FCU-3, FCU-4

The iWorX FCU-1, FCU-2, FCU-3, and FCU-4 are self-contained, interoperable controllers for commercial unitary fan coil units. Individual occupied and unoccupied temperature setpoints are provided for both heating and cooling cycles.

HPU-1

The iWorX HPU-1 is a self-contained interoperable controller for liquid source heat pump units. You can use the HPU-1 to control liquid source heat pump units with two-stage compressor, reversing valve, and fan. Individual occupied and unoccupied temperature setpoints are provided for both heating and cooling cycles.

LCU-1

The iWorX LCU-1 is a self-contained device for integrating control of facility lighting with iWorX. The LCU-1 controls lighting zones, accepts input from override switches and photosensors, and provides lighting status information. It can control 8 circuits with up to 64 loads.

LHP-1

The iWorX LHP-1 is a self-contained interoperable controller for controlling the loop temperature in a liquid source heat pump installation. The LHP-1 controls heating and cooling of a loop with one or two boilers and one cooling tower.

MPU-1

The iWorX MPU-1 is a multiplexed package unit controller that permits a single zone package unit to operate multiple zones. The MPU-1 operates in conjunction with up to 32 multiplexed zone controllers. Control is achieved by multiplexing the primary supply air between cooling and heating based on the various demands from the zone controllers. In addition to multiplexing, the MPU-1 controls an economizer and bypass damper.

PSU-1

The PSU-1 pump sequencing unit is a stand-alone microprocessor based controller for control of 2 pumps in a radiant heating application. The pumps can be rotated based on actual runtime or every start.

VAV-1

The VAV-1 is a stand-alone microprocessor-based controller for pressure independent or pressure dependent variable air volume zone terminal units. The VAV-1 is capable of communications on a LonWORKS network for monitoring and control purposes. The VAV-1 would be used to control commercial VAV zone terminal units and zone dampers. It performs a wide range of VAV zone terminal box and zone damper applications with and without reheat.

VPU-1

The iWorX VPU-1 is a variable air volume (VAV) package unit controller for controlling supply air temperature and pressure. The VPU-1 operates in conjunction with up to 60 VAV zone controllers. Control is achieved by modulating the economizer position and sequencing the heating and cooling stages based on the current supply air temperature requirements. In addition, the VPU-1 controls the supply fan speed to maintain a supply duct static pressure setpoint.

Standalone Modules**Mighty Mix**

The Mighty Mix injection mixing controller is a stand-alone microprocessor based controller for injection mixing and single boiler applications. Programming is accomplished using a 4 keypad and the LCD display.

RadPax

The RadPax boiler controller combines the BLR-1 features with an easy to use mounting board with enclosure. The mounting board allows the installer to connect directly to pumps and boiler stages by use of on board relays.

PumpPax PRC-6, PRC-4, PRC-4x, PRC-3 & PRC-1

The PumpPax zone relay control family provides switching for circulators or zone valves in hydronic applications. These non-networked controllers are intended to be used for circulators and boiler control in hydronic heating systems.

Demo Kits & Configuration Tools**HVAC Demo Kit**

The HVAC Demo Kit is a portable suitcase, that can be take to customers for demonstration and presentation purposes and can also be used for hands-on training sessions. The kit includes an LCI, DXU-2, LCU-1, ASM-2, ACU-1, proximity card reader and proximity cards, as well as lights and switches for simulation purposes..

Radiant Demo Kit

The Radiant Demo Kit is a portable suitcase that can be taken to customers for demonstration and presentation purposes and can also be used for hands-on training sessions. The kit includes an LCI, BLR-1 and BZU-1 controllers as well as a simulation panel.

LCI-1 Configuration Tool

The LCI-1 Configuration Tool is an LCI-1 with power supply in a rugged carry case for configuring/servicing stand-alone BLR-1 and RadPax's.

Sensors**DTM-3, DTM-4**

The DTM is a digital thermostat module with measures room temperature and transmits temperature and other input information to an iWorX HVAC controller such as the FCU-1 and DXU-2. The DTM sensors are not compatible with the iWorX radiant controllers.

MicroStat

The Microset II is an intelligent wall sensor and tenant service device used in conjunction with Innovex's iWorX DXU-3 controller. The Microset has a backlit LCD display for easy viewing in any lighting condition. The tenant can view the current room and outdoor air temperature as well as view and change the current room setpoint.

MicroTouch

The Microtouch is a wall sensor with setpoint adjustment, and tenant override. The Microtouch is used in conjunction with Innovex's iWorX DXU-3 controller.

SMC-2

The SMC-2 is a microprocessor-based snow and ice detector that has two temperature and two moisture detector inputs. In addition, there are two dry contact outputs to signal controllers such as the BLR-1 and RadPax when snow or ice is present. The SMC-2 requires use of an iWorX slab sensor.

TDI-1

The TDI series is a resistor interface between a conventional thermostat and the BLR-1s zone temperature input. Based on demand the interface switches between two resistances which represent demand and no demand to the BLR-1.

TRP-1

The TRP-1 Series is a thermistor type 10K Ohms (Type III) sensor and provides temperature input information to a controller such as the BLR-1 and BZU-1

TRW

The TRW Series is a thermistor type 10K Ohms wall mounted room sensor that measures room temperature and provides temperature as input information to a controller such as the BLR-1 and BZU-1.

PSC-1

The PSC-1 is a device used in conjunction with the BLR-1's injection output (0-10 VDC) to control line voltage on pumps and valve actuators.

Enhancements to existing controllers (Scheduled Release 2007)

MPU-1 v2.x

The MPU-1 will be enhanced to include floating point control of a cooling valve.

Products in Development (Scheduled Release 2007)

BTU-2

The BTU-2 unit is for monitoring BTUs and electrical consumption for a single zone and electrical meter. In addition, the supply water temperature, return water temperature and flow rate are provided.

BTU-3

The BTU-3, BTU metering unit is designed to provide metering for up to 3 zones. In addition the supply water temperature, return water temperature and flow rate are provided fro up to 3 zones.

BLM-1

The BLM Series are stand-alone microprocessor-based networkable controllers for controlling up to three modulating boilers. The application includes modulation of the boilers, pump sequencing, pump control as well as domestic hot water applications.

MPU-2,VPU-2

The MPU-2, VPU-2 will have enhanced features similar to the DXU-3, DXU-4

LCI-2

Continued enhancements will take place on the LCI-2, these enhancements may included connectivity to other third party LON based networkable controllers such as, BTU Meters, boiler controllers and HVAC controllers.

Third Party Networkable Devices

The LCI2 provides connectivity to other third party LON based networkable controllers like BTU-Meters, Boiler-Controllers. Please contact us with your special needs for integration.