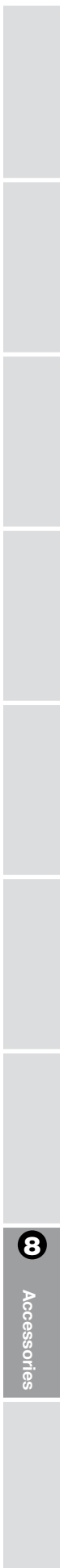


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Innovex Technologies

Innovex iWorX Air Side Control Products

PART #	DESCRIPTION	PRICE
AHU-1	Air Handling Unit, Self-Contained Interoperable Controller for a Single Zone Air Handler units with modulated cooling, modulated heating, and a two-position or modulated economizer. Occupied and unoccupied setpoint. Functions as part of FTT-10 LonWorks® network.	
ALM-2	Alarm Module Unit, Self-Contained Interoperable Controller for monitoring 8 temperature inputs using a thermistor or a switch contact. Digital outputs are provided to drive any external device such as an alarm or light. Functions as part of FTT-10 LonWorks® network.	
ASM-2	Auxiliary Sensor Input Unit with Energy Monitoring - Self-Contained Interoperable Controller for monitoring Auxiliary Sensors with inputs for outdoor air temperature, outdoor humidity, and supply water temperature to other devices on the network. Digital inputs provided for meter pulses and end-of-interval signals. Functions as part of FTT-10 LonWorks® network.	
CCU-1	Chiller Control Unit - Self-Contained Interoperable Controller for Air and Water cooled Central Plant applications with up to two chiller pumps, two condenser pumps, modulated valve, modulated fan speed, chiller setpoint, chilled water supply and return temperature. condenser water supply and return temperature, two flow switch input, chilled water demand, chiller general alarm. Functions as part of FTT-10 LonWorks® network.	
DXU-1	Single Zone Rooftop Package Unit - Self-Contained Interoperable Controller for a Single Zone Commercial Rooftop HVAC Unit with up to two stages of cooling and two stages of heating. Functions as part of FTT-10 LonWorks® network.	
DXU-2	Single Zone Rooftop Package Unit - Self-Contained Interoperable Controller for a Single Zone Commercial Rooftop HVAC Unit with up to four stages of cooling and two stages of heating and a modulated or two-position economizer. Functions as part of FTT-10 LonWorks® network.	
DXU-3 NEW	Single Zone Rooftop Package / Air Handling Unit - Self-Contained Interoperable Controller for a single zone DX package units and air handler units with an economizer. Can be configured for up to four stages of cooling, modulated or floating point cooling valve, 2 stages of heating, modulated or floating point heating valve. Also controls modulated or two position economizer. Individual temperature setpoints are provided for occupied/unoccupied heat and cool cycles along with dehumidification. Functions as part of FTT-10 LonWorks® network. <i>* See compatible sensors*</i>	
DXU-4 NEW	Single Zone Rooftop Package / Air Handling Unit - Self-Contained Interoperable Controller for a single zone DX package units and air handler units with an economizer. 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. Also controls modulated or two position economizer. Individual temperature setpoints are provided for occupied/unoccupied heat and cool cycles along with dehumidification and dehumidification with reheat. Humidification achieved by providing a contact closure for a humidifier. Functions as part of FTT-10 LonWorks® network. <i>* See compatible sensors*</i>	
DTM-1	Digital Thermostat - Without Display	
DTM-2	Digital Thermostat - Without Display with Unoccupied Override Button	
DTM-3	Digital Thermostat - with Display, Temperature Adjustment, Unoccupied Override Button	
DTM-4	Digital Thermostat - with Display, Temperature Adjustment, Unoccupied Override Button, Fan Button	

Innovex Technologies

Innovex iWorX Air Side Control Products

PART #	DESCRIPTION	PRICE
FCU-1	Fan Coil Unit – for a 2-Pipe Fan Coil Unit, Self-Contained Interoperable Controller for Commercial Unitary Fan Coil Units using a single coil for heating or cooling with a single modulated valve and a fan. Functions as part of FTT-10 LonWorks® network.	
FCU-2	Fan Coil Unit – for a 2-Pipe Fan Coil Unit, Self-Contained Interoperable Controller for Commercial Unitary Fan Coil Units using a single coil for heating or cooling with a single floating setpoint valve and a fan. Functions as part of FTT-10 LonWorks® network	
FCU-3	Fan Coil Unit – for a 4-Pipe Fan Coil Unit, Self-Contained Interoperable Controller for Commercial Unitary Fan Coil Units using a coil for heating and a coil for cooling with dual modulated valves and a fan. Functions as part of FTT-10 LonWorks® network.	
FCU-4	Fan Coil Unit – for a 4-Pipe Fan Coil Unit, Self-Contained Interoperable Controller for Commercial Unitary Fan Coil Units using a coil for heating and a coil for cooling with dual floating setpoint valves and a fan. Functions as part of FTT-10 LonWorks®	
HPU-1	Heat Pump Unit, Self-Contained Interoperable Controller for a Single Liquid Source Heat Pump with a two-stage compressor, reversing valve, and a fan, Functions as part of FTT-10 LonWorks® network.	
LHP-1	Liquid Source Heat Pump Unit - Self-Contained Interoperable Controller for Liquid Source Heat Pump central plant controller applications with one cooling tower and one or two single-stage boilers. Applications may also include two water pumps configured for lead-lag or continuous operation. Functions as part of FTT-10 LonWorks® network	
MPU-1	Multiplexed Package Unit - Self-Contained Interoperable Controller for Commercial Rooftop HVAC requiring Zone Control with up to two stages of cooling and two stages of heating, modulating bypass damper, modulating or two position economizer, IAQ compensation. Functions as part of FTT-10 LonWorks® network.	
MST-2	Digital Thermostat with Display - Temperature Adjustment, Unoccupied Override Button and Fan Button. Display shows time, OAT, and cooling or heating mode. Commissioning mode can be entered via the thermostat. **Only for use with DXU-3 & DXU-4 Controller*	
MTC-1	Wall Sensor - Override pushbutton and temperature adjustment bias. **Only for use with DXU-3 and DXU-4 Controller**	
VAV-1	Variable Air Volume Zone Unit - Pressure Independent VAV Zone Terminal. Controller provides a wide range of terminal unit applications. On Board Air Flow Sensor, Integrated Actuator, Optional IAQ Alarm Input. Parallel or Series Fan. Independent setpoint for occupied / unoccupied modes. Functions as part of FTT-10 LonWorks® network.	
VPU-1	Variable Air Volume (VAV) Package Unit - Self-Contained Interoperable Controller for Commercial Rooftop HVAC requiring VAV Zone Control with up to four stages of cooling and two stage heating or floating point valve control, variable fan speed, modulating or two position economizer, IAQ compensation. Supports up to 60 VAV-1 terminal box unit controllers. Functions as part of FTT-10 LonWorks® network.	

Innovex Technologies

Innovex iWorX Radiant Control Products

PART #	DESCRIPTION	PRICE
BLR-1	Boiler Staging Control - Stage up to 4 single stage boilers or 2 two stage boilers with lead/lag and reset. Control primary & secondary pumps. Analog output (0-10VDC) for radiant pump or 3-way valve. Snow melt and Domestic Hot Water Control. OAT shut-down. Return boiler water protection. Occupied / Unoccupied scheduling through LCI controller. Alarms via LCI Includes three (3) bullet (TPR-1) sensors. Functions as part of FTT-10 LonWorks® network.	
BLR-1P	BLR-1 RadPaX Boiler Staging Control - Includes all features of BLR-1 controller listed above plus enclosure with all applicable relay interface devices. Provides multiple Temperature Reset Loops, Primary Loop Reset, Secondary Injection Mixing Loop, Single Zone or Zoned Snow Melt System Input, 3 Pump Relay Outputs, DHW or Auxiliary Load Pump Output. Includes three (3) bullet sensors (TRP-1) Functions as part of a FTT-10 LonWorks® network.	
BZU-1	Multiple Zone Controller - 5 thermistor inputs & 5 digital outputs for control of up to five heating or snow melt zones and a common heat source. Sensors communicates data to the BLR controller to adjust output of injection mixing zone. Digital output can activate pump relay or zone valve. Network up to 8 units (40) zones associated with one BLR. Functions as part of FTT-10 LonWorks® network.	
BZU-2	NEW! Multiple Zone Controller - 5 thermistor inputs & 5 digital outputs for control of up to five heating or snow melt zones and a common heat source. Sensors communicates data to the BLR controller to adjust output of injection mixing zone. Digital output can activate pump relay or zone valve. Network up to 24 units (120) zones associated to one BLR. Multiple BZU-BLR associations per LCI-2. Custom naming of zones up to 7 character in length. Functions as part of FTT-10 LonWorks® network.	
PSC-1	Pump Speed Controller - For controlling any 120 volt circulator pump. Receives an analog (2-10VDC) input from BLR-1 to control the speed of a pump for injection mixing. Works in conjunction with BLR-1.	
PSC-3	Mighty Mix - Stand Alone Injection Mixing and Single Stage Boiler Control, controls pump speed at a fixed setpoint or variable setpoint based on Outdoor Reset. Includes two bullet sensors (TRP-1) and one outdoor air temperature sensor (TOA-1).	
PSU-1	NEW! Pump Sequencer - Self Contained Interoperable Controller for multiple (2) pump applications. Can be networked or stand alone operation. Alternate lead pump with each on-off cycle. Equal run time with adjustable limit. Two stage operation based on adjustable primary loop temperature differential. Standby operation with manually selectable lead pump. Warm weather shutdown. Alarm reporting on iWorX network. Functions as part of FTT-10 LonWorks® network.	
TDI-1	Digital to Analog Signal Converter (Dry Contact to Analog)	
TDI-1E	Digital to Analog Signal Converter - With enclosure (Dry Contact to Analog)	
TOA-1	Outdoor Air Sensor - 10K (Type III) Sensor with enclosure	
TRP-1	Thermistor Type Sensor - 10K (Type III) 1/4" x 1" w/ 24" leads	
TRP-1K	4-Pack Thermistor Type Sensor - 10K (Type III) 1/4" w/ 24" leads	
TRW-1	Room Thermistor - (Sensor), No Display - (Provides Temp. input to BLR-1 and BZU-1)	
TRW-2	Room Thermistor (Sensor), With LCD Display - (Provides Temp. input to BLR-1 and BZU-1)	
TRW-3	Room Thermistor (Sensor) Adjustable, No Display - (Provides Temp. input to BLR-1 and BZU-1)	
TRW-4	Room Thermister (Sensor) Adjustable, W/LCD Display - Provides Temp. input to BLR-1 & BZU-1	
ZXU-1	NEW! Zone Mixing Unit, Provides injection mixing for one loop. Supply and Return Temperature can be configured separately. Outdoor Air Temperature, Radiant Slab Temperature and Zone Temperature are also provided. Boiler Enable and Primary pump signal provided if the loop is in demand. Heat/Cool control selectable. Modulated mixing 0-10V or 2-10V output. Snowmelt mode with extended features. Networking with Boiler Controller Series and with DXU series controller. Functions as part of FTT-10 LonWorks® network.	

Innovex iWorX Access Control Products

PART #	DESCRIPTION	PRICE
ACU-1	Access Control - Self-Contained Interoperable Controller for Single Door Access monitors contacts and controls actuators via its 2 card reader/keypad interfaces, 4 digital outputs, 4 supervised inputs, and 1 relay output. Functions in Standalone Mode or as part on FTT-10 LonWorks® network	

Innovex iWorX Lighting Control Products

PART #	DESCRIPTION	PRICE
LCU-1	Lighting Control Unit - Self-Contained Interoperable Controller for Facility Lighting with 8 lighting outputs, 8 Remote Override Switch Inputs and a Photosensor Input. Functions as part of FTT-10 LonWorks® network.	

Innovex iWorX Local Control and Internet Interface

PART #	DESCRIPTION	PRICE
LCI-2	Local Control Interface with Internet Connectivity, Self-Contained Touchscreen user interface and system configuration tool that includes a Web-Based Network via Internet. Using TCP/IP or dial up to access the system, Web pages automatically display all.	
LCI-2-SK	Local Control Interface II Service Kit, Local Control Interface II Service Kit, includes power supply, communication cable and carrying case. Used for setting up and commissioning systems that do not have dedicated LCI on site.	
LCI-1	Local Control Interface, Self-Contained Touchscreen user interface and system configuration tool that communicates with controllers over a LonWorks® network. Its application includes an operator interface, global time of day scheduling, and configuration	
LCI-1-SK	Local Control Interface Service Kit, includes power supply, serial cable and carrying case. Used for setting up and commissioning systems that do not have dedicated LCI on site.	

Innovex iWorX Pump Relay Interface Products

PART #	DESCRIPTION	PRICE
PRC-1	NEW! Pump PaX Single Zone - Relay Control for a Circulator in Hydronic Applications	
PRC-3	NEW! Pump PaX Three Zone - Relay Control for 3 Circulators in Hydronic Applications. Features Optional Priority Zone with Selectable Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status.	
PRC-4	NEW! Pump PaX Four Zone - Relay Control for 4 circulators in hydronic applications. Features Optional Priority Zone with Selectable Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status..	
PRC-4X	NEW! Pump PaX Four Zone EX - Relay Control for 4 Circulators Expandable to six (6) in Hydronic Applications. Features Optional Priority Zone with Selectable Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status.	
PRC-6	NEW! Pump PaX Six Zone - Relay Control for 6 Circulators in Hydronic Applications. Features Optional Priority Zone with Selectable Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status	

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Innovex iWorX Valve Relay Interface Products

PART #	DESCRIPTION	PRICE
VPC-4	NEW! ValvePaX - Four Zone - Universal Zone Valve Control for 4 Zones in Hydronic Applications. On Board 5 Amp Outputs for Primary Pump and Indirect Pump Operation. PTC for Overload Protection. High Capacity Transformer. Priority Zone with Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status.	
VPC-6	NEW! ValvePaX - Six Zone - Universal Zone Valve Control for 6 Zones in Hydronic Applications. On Board 5 Amp Outputs for Primary Pump and Indirect Pump Operation. PTC for Overload Protection. High Capacity Transformer. Priority Zone with Freeze Protection Timer. Constant Power to Thermostats. Front LED Indication of System Status	
VPM-4	NEW! ValvePaX - Four Zone Expansion Module - Universal Zone Valve Control for 4 Zones in Hydronic Applications. Expansion Module for Connection to VPC-4 or VPC-6. PTC for Overload Protection Priority Zone with Freeze Protection. Constant Power to Thermostats. **Note** For Standby Operation of VPM-4 External Power Supply Must be Provided **Note** Primary and Indirect Pump Outputs Not Provided on Board VPM-4	
RLY-04	NEW! Universal Plug In Replacement Relay for PumpPaX and ValvePaX Product Line	

Innovex Snow Melting Products and Accessories

PART #	DESCRIPTION	PRICE
SMC-2	Snow & Ice Melting Control - Digital Programming and LCD Display. Uses one or two 605 Series snow sensors. Includes Idling mode. Works as a Universal Snow Melt Controller providing contact closure output or as a networked solution when used in conjunction with a iWorX BLR-1 controller. ** See Peripheral Devices to be Ordered Separately**	
605020A	Slab Sensor - with 65 Foot cable includes brass holding sleeve for NEW! installations. For use with SMC-2 controller. **	
605020R	Sensor & Ring - Includes 65 Foot Cable **	
605030	Gutter Sensor - with 20' cable. For use with SMC-2 control **	
605050A	Slab Sensor - Includes 165 Foot cable includes brass holding sleeve for new installations. For use with SMC-2 controller. **	
605050R	Slab Sensor - Includes 165 Foot cable includes brass holding adaptor ring to fit larger old style holding sleeve. For use with SMC-2 controller. **	
605021	Replacement sleeve - For 605 series slab sensor **	
605022	Retrofit Adaptor Ring - For mounting 605 series slab sensor in larger old style holding sleeves. (Tekmar socket) **	
150004	Outdoor Air Sensor - For snowmelt idling mode - use with SMC-2 control only. **	

Innovex iWorX Product Demonstration Units

PART #	DESCRIPTION	PRICE
DEMO1-RAD	Demonstration Unit I - Hydronic - Training and sales toolcase equipped with an LCI-1, BLR-1, BZU-1, TRW Sensors and a control pod to simulate a radiant system.	
DEMO2-INT	Demonstration Unit - Integrated - Training and sales toolcase equipped with and LCI-2, ACU-1, LCU-1, ASM-1, DXU-2, DTM Sensors and Card Reader. Simulates an HVAC, card access and lighting control system.	
DEMO2-RAD	Demonstration Unit II - Hydronic - Training and sales toolcase equipped with an LCI-2, BLR-1, BZU-1, TRW Sensors and a control pod to simulate a radiant system.	
DEMO2-VAV	Demonstration Unit - Air Side - Training and sales toolcase equipped with an LCI-2, VAV-1, MPU-1, ASM-2, FCU-3, DTM-4	

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