

iWorx[®]
by Taco Electronic Solutions

BZU3

Controller



**Web-based building
management made easy**

BZU3 CONTROLLER

Feature	Benefit
<p>Each BZU3 controls up to 4 heating zones. Up to 24 BZU controls can be networked to a single BLM Boiler Operating Controller. Allows up to 96 heating zones per BLM. Up to 8 BLM's per LCI2. This controller can also be networked to an HPM</p>	<p>Lowers system costs since each BZU3 can handle up to 4 zones.</p> <p>Reduces the number of total controls required saving time and installation expense.</p> <p>Easily scalable for any size system whether residential or commercial.</p>
<p>Snowmelt and Radiant Heating Operation</p>	<p>A single flexible controller can handle both Radiant heating and snowmelt operation.</p>
<p>Zoned or Global Snowmelt Sense</p>	<p>In snowmelt mode, each zone can accommodate its own snowmelt sensor, or refer to a global snowmelt sensor.</p>
<p>3 Modes of Radiant Heating</p>	<p>Allows the user to maintain a space temperature, a floor temperature or Both.</p>
<p>Individual temperature setpoints for each zone. Individual P+I control for each setpoint. Individual setpoints and thermostats.</p>	<p>Customizable temperature settings accommodate variable zone by zone temperature requirements.</p> <p>Ensures accurate temperature control in every zone for maximum comfort.</p>
<p>Heat demand output for pump, valve or TT on the boiler</p>	<p>Works with any boiler, pump or valve no matter what internal controls are supplied.</p> <p>Creates a dry contact demand that can be used with any equipment.</p> <p>Basic 2-wire TT connections from the heat demand output turns any boiler into a networkable, web enabled component.</p>
<p>Heat demand or zone demand can be configured to the boiler controller to operate either a high or low temp (mixed temperature) loop.</p>	<p>Each controller can be assigned to a specific loop type, simplifying high and low temp heat zones or system demands.</p> <p>Simplifies radiant and high temp hydronic system installations like fan coils, unit heaters, baseboard or panel radiators.</p>
<p>Warm weather shutdown when configured with a BLM series controller.</p>	<p>Increases energy efficiency by preventing heating demands when outdoor temperatures exceed the shutdown setpoint.</p> <p>Reduces fuel consumption.</p>

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Individual zone re-naming	<p>Allows customization of each zone name for easy identification.</p> <p>Provides easy temperature viewing for each zone and helps identify system problems by individual zone for fast troubleshooting.</p> <p>System alarms identify each individual zone, isolating problems, saving time and money on service calls.</p>
Automatic configuration to the LCI-2	<p>One touch commissioning automatically places controller on the network.</p> <p>Ensures that controller has been properly installed and wired correctly.</p>
Unit can be placed in commissioning mode to verify controller operation	<p>Facilitates trouble shooting and saves valuable service time and labor expense.</p>
“Smart Calc” heat demand calculation	<p>Eliminates micro loading of boilers, yet enables small zones to receive heat output.</p> <p>“Smart Calc” aggregates zone demands from all BZU controllers on a network to ensure that the boilers fire only when the total load demand reaches a level that prevents boiler short cycling.</p> <p>Individual zone outputs are energized even though the boiler may not be firing because of a micro load situation.</p>
Indoor feedback from all zones	<p>Optimizes the reset curve by looking at not only the outdoor temperature, but indoor feedback from all zones to determine the precise supply water temperature for both high and low temperature zones.</p> <p>This ensures that maximum comfort is achieved under any condition.</p> <p>Accounts for thermal dynamics of each individual building envelope by factoring in wind chill, solar gain, glass exposure, insulating characteristics.</p> <p>Maximizes condensing efficiency by operating the system at the lowest possible supply temperature under all conditions based on actual heat loss and not just outdoor temperature.</p>

Feature	Benefit
Operates in radiant or snow melt mode.	Versatile controller operates either as a radiant zone or stand-alone snow melt controller.
Floor and space temperature control	Comfortable room environment controls both floor and air space while protecting floors from excessively high or low temperatures.
Supports TS100 and TS200 series sensors.	Supports multiple sensor options
Associates with DXU series controllers.	Seamlessly integrates hydronic heating and air side cooling.
Associates with HPM series controllers.	Directly communicates a hot water demand to an HPM for additional heating flexibility.
Associates with a BLM series controller.	Alternate snow melt control in conjunction with a BLM. Secondary loop supply option using the BLM injection functions.



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Taco Electronic Solutions, Inc., 1160 Cranston Street. Cranston, RI 02920 / (401) 942-8000 / Fax (401) 942-2360
Taco (Canada) Ltd., 8450 Lawson Road, Unit #3, Milton, Ontario L9T 0J8 / (905) 564-9422 / Fax (905) 564-9436
www.taco-hvac.com

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