Price Intelligent Controller
For HVAC Zone Control

price®

The Science of Comfort™

PRICE INTELLIGENT CONTROLLER

The Price Intelligent Controller (PIC) is a universal DDC control package that offers a new level of zone control.

An advanced and configurable proportional integral (PI) controller allows for exceptional user comfort and energy efficiency. Installation of the controller and thermostat is simple and error proof with RJ-45 (network type) connections to the thermostat.

The PIC is available with several thermostat options allowing the designer to match the specific needs of the customer. All Price thermostats, except the wireless model, have a RJ-12 service port allowing setup and configuration access without having to access the plenum.

PIC FEATURES

· Fast and error proof RJ-45 thermostat connections

· Integrated actuator

· 24 VAC binary outputs field selectable between hot and common switching

· Analog (0-10 VDC) outputs for heating, cooling, fan and auxiliary

· Field installable expansion modules for BACnet MS/TP and VAV flow sensing

· Pluggable terminal blocks for easy field wiring

· Diagnostic LED's showing status of each output including damper open / close
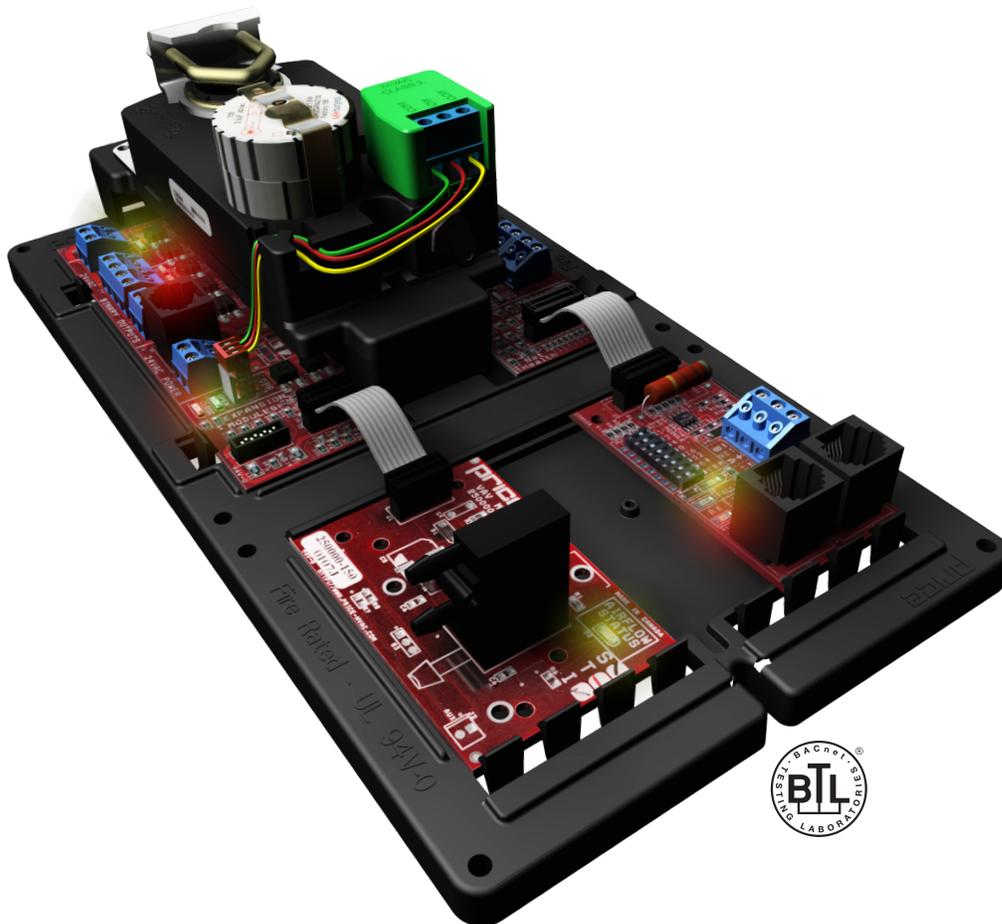
LCD Thermostat with Motion Sensor

This model measures room temperature, has an LCD screen with push button set point adjustment and features a motion sensor. The motion sensor allows for automatic detection of space occupancy and therefore can save energy by shutting down during unoccupied periods.

LCD Thermostat

This model measures room temperature and houses a LCD screen with push button set point adjustment. With a button press, the occupant can override the system's schedule during unoccupied times, providing the user with optimal comfort. Temperature set point limits are set through the LCD service menus, or over BACnet.

Room Sensor Thermostat

This model measures room temperature. Temperature set points are set through software, eliminating the need for local set point adjustment (Either free setup software or BACnet).

Dial Thermostat

This model measures room temperature and features a dial adjustment and an occupancy button with LED. Temperature set point limits are set through software. (Either free setup software or BACnet).

Wireless Thermostat

The model allows convenient, wire free placement in any room, on any surface. A small reciever module is mounted near the controller with up to 50' range.

PRICE INTELLIGENT CONTROLLER

The PIC universal DDC controller arrives on site fully programmed and configured for a specific sequence of operations. If any changes are needed, you can use the PIC interface cable and software to make changes easily after installation. The interface cable plugs into any thermostat model's service port, allowing the installer to adjust virtually any setting in the PIC controller. This gives the installer the ability to access all these functions without having to climb into the ceiling plenum.
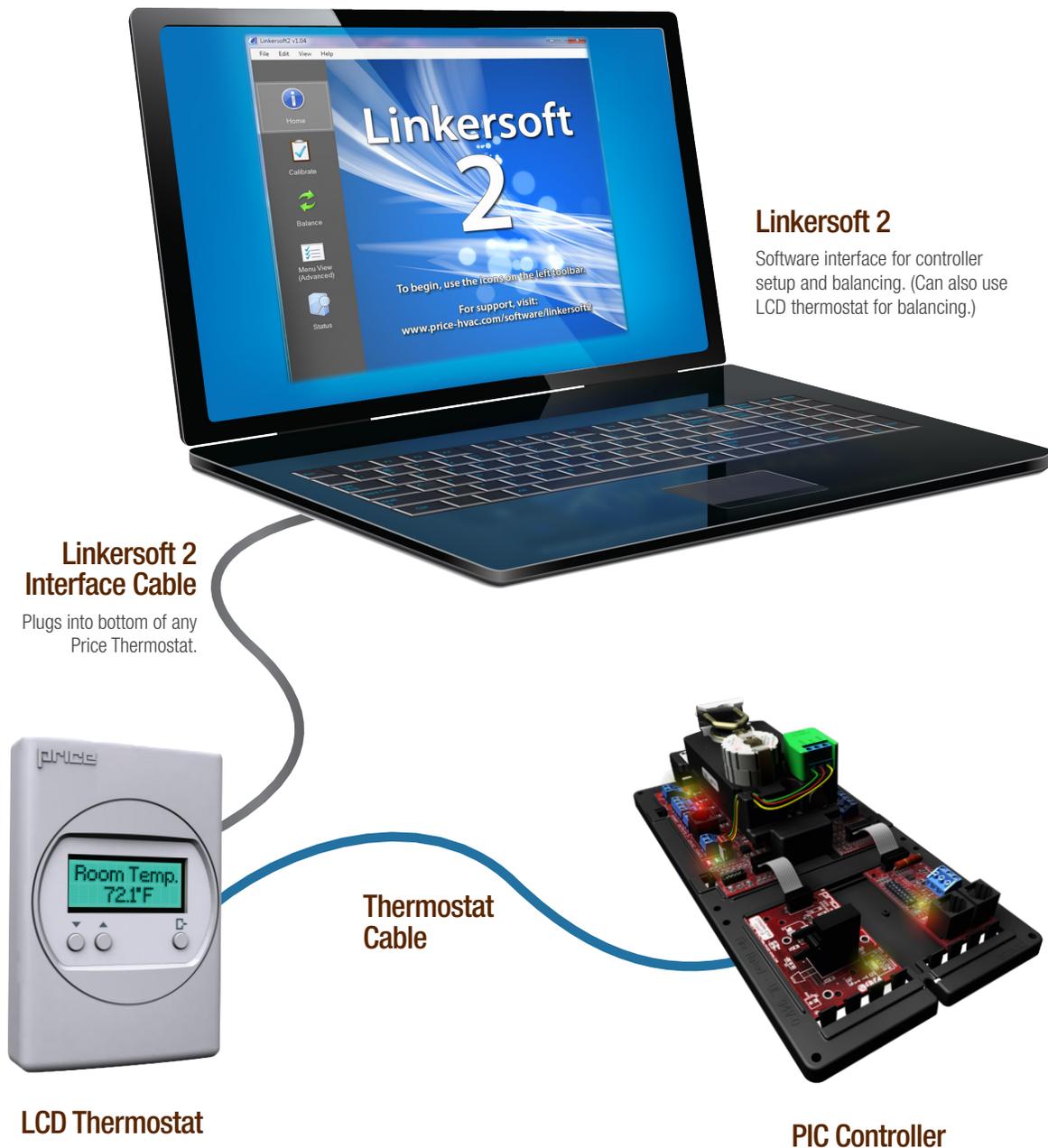
Linkersoft 2

Software interface for controller setup and balancing. (Can also use LCD thermostat for balancing.)

Linkersoft 2 Interface Cable

Plugs into bottom of any Price Thermostat.

Thermostat Cable

LCD Thermostat

PIC Controller

EXPANSION MODULES

The PIC universal DDC controller is extremely flexible and is available with both BACnet and VAV expansion modules. This allows the PIC to perfectly fit the customers application and control costs. The expansion modules are extremely easy to install. Just use the included ribbon cable connector and plug into the PIC. The cables are keyed to prevent incorrect hookup.
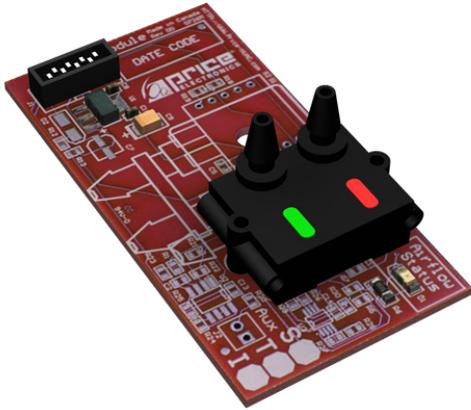
NEW - VAV EXPANSION MODULE

The new expanded range VAV module enables you to operate your terminal unit with a remarkably high turndown range. This means each terminal unit is able to operate over a wider range of airflows, from as low as half of the standard minimums to over 20% above the standard maximums. When controlling low flow air volumes, the transducer maintains a high level of accuracy, even with a very low velocity pressure signal, allowing extremely low flow rates to be accurately controlled and regulated. Combining these benefits, you will achieve a much greater turn down ratio than ever before, which is now being required in today's highly efficient buildings such as classrooms, LEED buildings, or anywhere energy consumption is paramount.

E.g.	Size	Old Range	New Range	Turndown Increase
	5"	63-350	31-428	248%
	8"	132-800	66-1000	250%
	14"	439-3000	220-3600	239%

BENEFITS

| Lower minimum	Higher maximum
Energy savings	More flexibility in terminal unit selection
Better comfort control	Costs savings (reduced size of terminal unit)
Lower risk of overcooling/overheating	More adaptable to changes after installation
Typically used in buildings with occupancy control or demand control ventilation (DCV) for ultra low flow rates during low unoccupancy periods	Less unique products on jobsite. Reduces potential installation errors
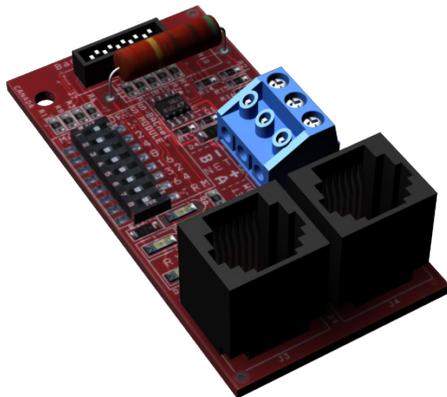
BACNET EXPANSION MODULE

The BACnet MS/TP expansion module adds BACnet server capabilities to the PIC. This allows full control and setup of the PIC on a BACnet MS/TP network.
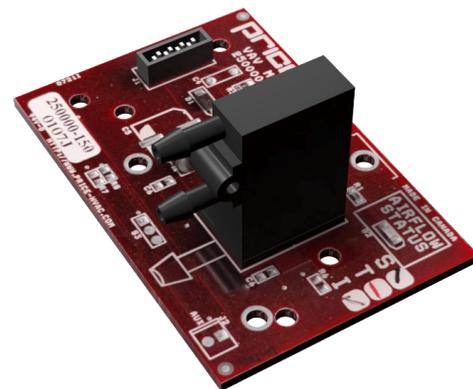
VAV EXPANSION MODULE

The VAV expansion module adds full pressure independent control to the PIC. Using a state-of-the-art airflow sensor with the PIC's proportional integral control allows fast and reliable airflow control.

PRICE CONTROLS DISPLAY

Price designs and manufactures several different controllers for the HVAC market. Showcased in our Winnipeg, Atlanta and Phoenix facilities, the Price Controls Display offers a valuable training and learning tool. Nine interchangeable panels highlight the wide range of control products available from Price. Each panel is active and fully operational for training purposes.

A   PRTU-WEB – Price Web Server Package

B   PRTU – Price Rooftop Unit Controller

C   Prodigy Smart Diffuser

D   PIC – Price Intelligent Controllers

E   UMCB – Underfloor Modulating Controller

F   Price ECM Standard and ECM Deluxe Motor Speed Controllers

G   Price Electric Heater Controls

MANUFACTURING DIVISION
PRICE ELECTRONICS

Part of the Price Group of Companies (www.priceindustries.com), Price Electronics provides full turnkey contract manufacturing services for several North American customers.

Based in Winnipeg, Canada in a modern facility, Price employs the latest lean principles in the manufacturing of high reliability products for its customers. Price's current customer base includes companies from the HVAC, industrial automation, medical and transportation sectors.

The products Price manufactures are often expected to operate in harsh or hostile environments where quality and reliability are critical.

Price Electronics provides a full range of services to its customers including project management, new product development and contract manufacturing services. Price's manufacturing capabilities include automated equipment, set up to cost-effectively support a full range of production volumes and product technologies. Price Electronics is committed to providing outstanding value to our customers through excellent quality and continuous process improvement.

PRICE SILENT GUARD

PRICE INTELLIGENT CONTROLLER

ECM DELUXE CONTROLLER

PRODIGY SMART DIFFUSER

priceindustries.com

Product Improvement is a continuing endeavour at Price. Therefore, specifications are subject to change without notice. Consult your Price Sales Representative for current specifications or more detailed information. Not all products may be available in all geographic areas. All goods described in this brochure are warranted as described in the Limited Warranty shown at priceindustries.com. The complete Price product catalog can be viewed online at priceindustries.com.

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