PRTU
PRICE ROOFTOP UNIT CONTROLLER

PRTU
Price Rooftop Unit Controller

FEATURES & OPTIONS

+ Designed to work with Constant and Variable Volume rooftops

+ Heat Pumps, Furnaces

+ Weekly Scheduling (Real-Time clock)

+ Motion Sensing for Occupancy/Unoccupied modes

+ Simple and easy Setup Wizard for configuring unit and system operation

+ CAT5e thermostat cable provided for easy hookup (plenum rated)

+ BACnet MS/TP communication used for networked applications (30 zones max.)

+ Stand-alone operation also available

INPUTS

+ [6] Analog Thermistive Inputs - 10kOhm

+ [6] Analog 0-10VDC Inputs

+ Discharge and Return Air sensors provided for monitoring/safeties
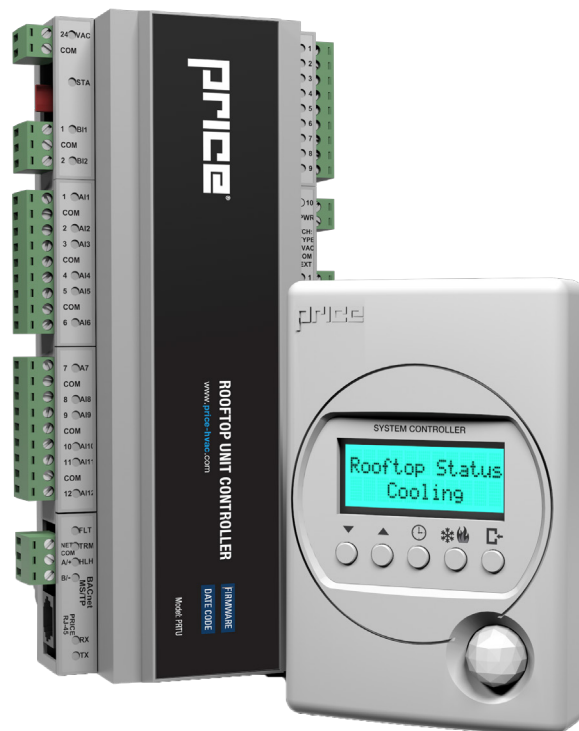
+ LED indication showing status of inputs

OUTPUTS

+ [10] Binary outputs, switchable between 24VAC hot/common, rated for 0.5 amps each

+ [4] Analog outputs for Fan, Heating, Cooling & Auxiliary

+ LED indication showing status of outputs (normal/fault/overridden)

+ BACnet Communication:

    - LEDs indication of BACnet communication, BACnet Health, & Fault status

Designed to work with any constant volume or variable volume packaged rooftop in small to medium sized buildings (50,000 sq.ft.) with 2-30 ton applications, the PRTU is an advanced proportional integral (PI) DDC controller that offers intelligent control for your building.

When networked with a PIC or Prodigy unit using BACnet MS/TP protocol, the PRTU system can utilize a networked strategy to intelligently control your building. Determining the load in each zone, the PRTU will turn on stages of heating or cooling based on the overall demand from the zones. Price recommends a maximum of 30 zones per PRTU controller.

Networked polling strategies are available within the PRTU controller and can be adjusted onsite as required.

If a Stand-Alone strategy is required, the PRTU can operate on its own without any influence from the zones.

SYSTEM LAYOUT

The following image outlines a typical Price zoning system utilizing a PRTU rooftop controller, PCV bypass controller, PIC zone controllers for terminal units, or even Prodigy VAV diffusers.

1. The PRTU-Stat

+ Motion sensor for automatic occupancy control

+ Scheduling with Real Time Clock and Weekly Schedule

+ Operates as a thermostat when system is in Stand-Alone mode

+ Backlit LCD display which allows for adjustment of parameters as required and basic system information.
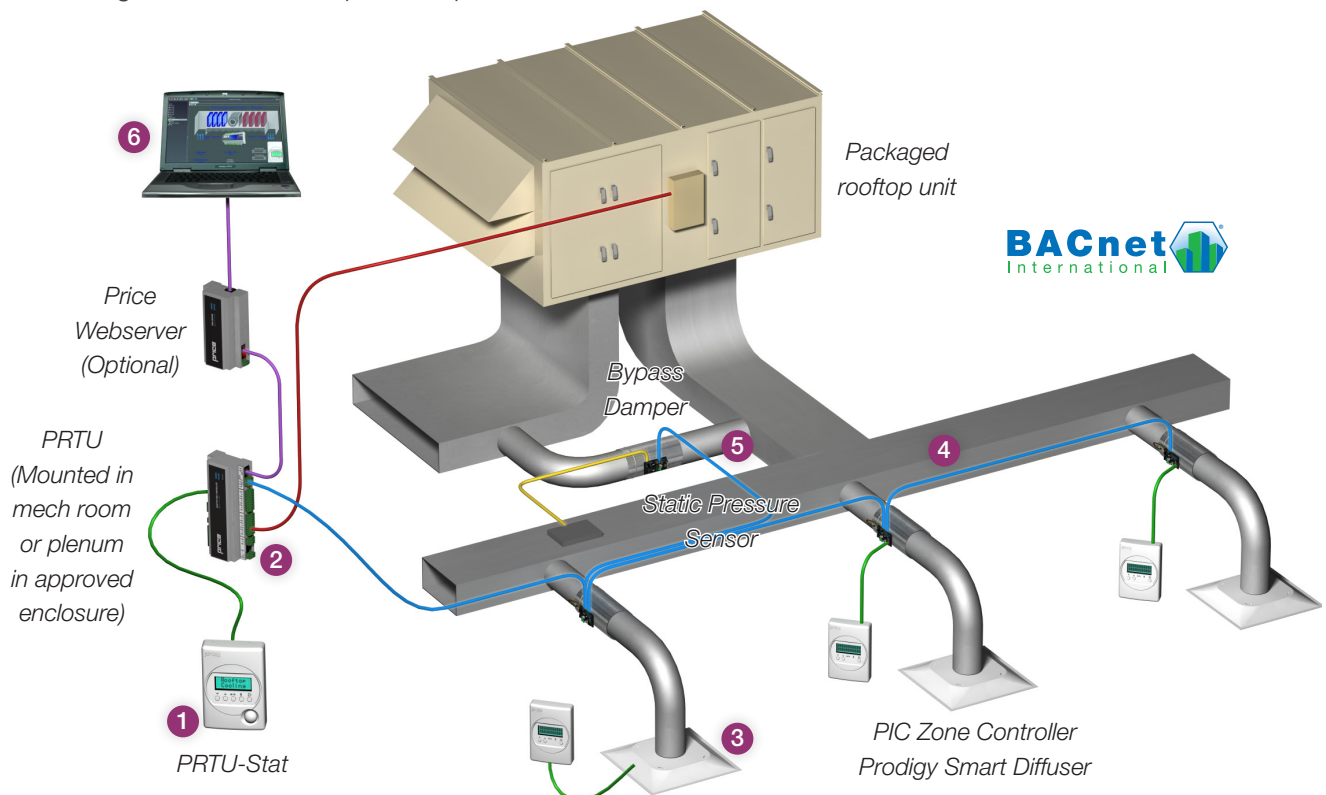
2. The PRTU

+ Controls constant volume, variable volume rooftop units, heat pumps and furnace applications.

+ All zones communicate with PRTU via BACnet MS/TP networking

+ Discharge and Return temperature probes

provided to act as safeties and prevent over heating or over cooling of spaces

+ Connects directly to rooftop unit using conventional terminal strip

3. Price Prodigy® Smart Diffuser

+ Self modulating personal diffuser with BACnet capability

+ For VVT applications, great for new installs and retrofits

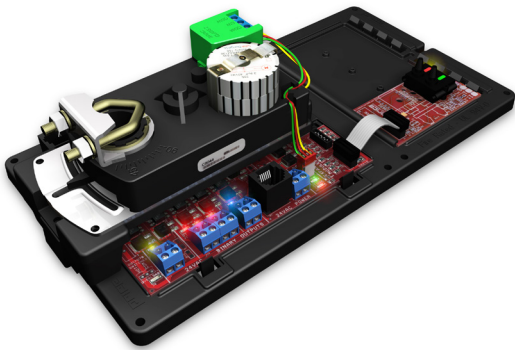+ Works best when systems are designed to 0.25" system static

Packaged rooftop unit

Price Webserver (Optional)

PRTU (Mounted in mech room or plenum in approved enclosure)

Bypass Damper

Static Pressure Sensor

PRTU-Stat

PIC Zone Controller

Prodigy Smart Diffuser
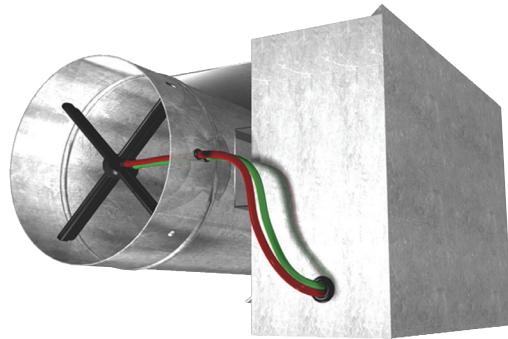
For more information visit **www.priceindustries.com**

4. The PIC Zone Controller

+ Designed to control single duct units, fan powered units, chilled beams and fan coils

+ Pressure Dependent and Pressure Independent sequences available

+ BTL certified controller

+ Wide range of thermostats offers versatility

5. The Bypass Damper (Pressure Control Valve-PCV):

+ VAV damper controller, static pressure transducer and low leakage damper assembly

+ Accurately controls static pressure ranges from 0 - 2" w.c.

+ Ability to adjust required static pressure with LCD service tool

6. Price WEB Server - HTML5

+ Graphical Interface for monitoring and controlling small to medium sized buildings over BACnet communication

+ Alternate to full blown (BMS) Building Management Systems

+ Graphic creation made easy with pre-built templates for Price equipment

+ Create trends and setup alarms to help monitor and control your building

price | CONTROLS