

Price Controls Pre-Commissioning Checklist

This pre-commissioning checklist applies to Price PRTU systems made up of any combination of:

PIC Zone Controllers	Prodigy Smart Diffuser	Price Webserver
PIC-SD Zone Controllers	PRTU Rooftop Controller	PCV Static Pressure Controller

NOTE: For any job where Price factory technicians will be performing commissioning, this list must be completed prior to their arrival onsite. **For jobs where commissioning will be done by field technicians, refer to the next side of this page for the commissioning checklist.**

Pre-Commissioning:

- Make sure all network cables are run between all devices. For a typical PRTU system, all VAV Zone Controllers, Prodigy Diffusers, and the (PCV) Bypass Controller must all be connected on a BACnet daisy chain configuration to the PRTU controlling the RTU serving those pieces of equipment.

NOTE: For most controllers, Price supplies a 35' CAT-5 cable for running the BACnet network. It is advised to use these cables wherever possible. If/when BACnet must be hardwired, Price recommends using 1 twisted pair for + and -, and a second twisted pair for NET COM. **NET COM MUST BE WIRED.** See BACnet Wiring Guidelines Manual or specific controller manuals for more information.

- Make sure all thermostats are mounted, connected to their controller, and lit up.
- Make sure **ALL** 24 VAC transformers are grounded on the secondary side (including the RTU transformer).
- Run field supplied ¼" pneumatic tubing from factory supplied static pressure probe (shipped inside of PCV controls enclosure) to the high side of the transducer on the PCV. Low side (green dot) left open. **DO NOT CONNECT THE CAPPED TUBES FROM THE INLET OF THE PCV TO THE TRANSDUCER.**

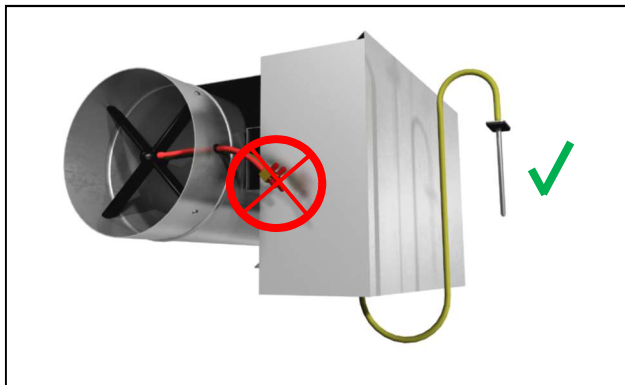


Figure 1 – PCV – Pressure Control Valve (Bypass)

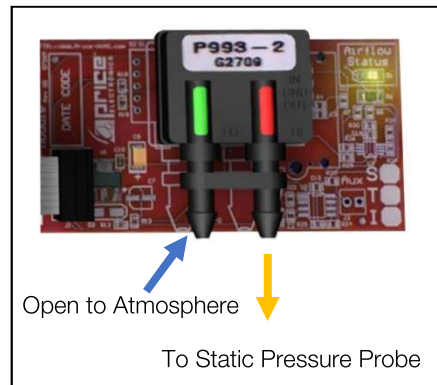


Figure 2 – PCV Pressure Transducer

NOTE: Air balancing can be done before or after commissioning

If you need assistance with any of the above tasks, please contact Application Support – 204.654.5613 Option 4
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Once the pre-commissioning steps from the pre-commissioning checklist have been carried out, the following steps can be used to commission the PRTU system. These are the same steps Price factory technicians would carry out for Price commissioned jobs.

Commissioning:

- Starting at the PRTU System Controller Thermostat, complete the Setup Wizard. For zoned systems, this step will assign a device instance to use in setting up the zone controllers connected to this PRTU based on the RTU number you assign. The Setup Wizard will also give you some other basic instructions used for addressing and setting up the rest of the system.
- At each zone controller, set the MAC address, device instance, and baud rate. MAC addresses must be unique for each device on a network segment and must start at 1 and go in ascending order without skipping any numbers until all devices on that segment are addressed (with the exception of the PRTU itself whose MAC address will be automatically assigned by the RTU number assignment, and the PCV which should be set to a MAC of 80). Device instances must be consistent for *all* devices on a single network segment. Use default baud rate of 76800 unless integrating into a larger BACnet network by others that uses a baud rate other than 76800.
- Address the PCV if it is networked (optional unless using a webserver in which case networking the PCV is strongly advised). Price recommends an address of 80 so that the PCV is out of the range of the addresses which the PRTU will poll for heating/cooling.
- Once all zones and the PCV are addressed, check to see how many zones are up at the PRTU System Controller Thermostat. Zones up must match number of zones.
NOTE: It will take about 5 minutes for the PRTU to discover the zones and display zones up.
- Once all zones are up on all PRTUs, pull in graphics for each device on the webserver (if present), and configure the IP router for remote monitoring.
- Cycle the zone controllers through heating and cooling modes. Make sure the PRTU engages the heating and cooling on the RTU, and that the PCV controls the duct static as the zone control dampers open and close.

NOTE: This list provides a very basic order of operations and is not intended to replace the service and installation manuals for any product, or list troubleshooting steps. See manuals for detailed wiring information and service menu navigation.

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