

PRODUCT OVERVIEW

TRACKING CONTROLLER (TC)

Price's TC controller is designed for tracking pair solutions to provide precision volumetric offset control in operating rooms and critical patient care spaces. This valve mounted controller includes full reheat control and the convenience of native BACnet communication.

The TC is designed to accurately maintain a user defined volumetric offset between the supply and return/exhaust valve in a VAV system. As the supply valve modulates to satisfy ventilation, temperature or occupancy requirements, the corresponding return/exhaust valve "tracks" to maintain the preset CFM offset in support of maintain room pressure differentials.

Multiple flow feedback input options allow the TC tracking pair controller to be used with Price venturi valves, single-duct terminal units or a combination of both, maximizing valve selection flexibility for system designers. Commissioning software allows quick and thorough setup of the TC system with the ability to generate a printable test report.



Product Features

TC:

- Controls volumetric offset between two valves.
- Standalone or BACnet network operation.
- Adjustment of sequence parameters, settings, and balancing are possible from the password-protected service menu of LCD thermostats.
- Service port on all thermostat models provides a computer interface for setup/balancing when LCD thermostat is not available/sufficient.
- Fast/error proof RJ-45 thermostat connections.
- Heat control interfacing is available.

SPECIFICATIONS

Input Power: 24 VAC, 50/60 Hz, 5VA (plus external actuator/reheat loads), Class 2

Environmental (operating): 0 C to 50 C (32 F to 122 F), 0% to 95% R.H. (non-condensing)

Environmental (storage): -30 C to 50 C (-22 F to 122 F), 0% to 95% R.H. (non-condensing)

Inputs: (2) thermistor (t-stat, duct probe), (1) binary input (contact closure)

Airflow Inputs: Up to (2) analog inputs for LM or (2) VAV modules for multi port airflow sensor (Depending on configuration)

Outputs: (4) analog (0-10 VDC) short circuit protected, (10 mA maximum)
(9) binary outputs (24 VAC) – Fan, Heat 1,2,3, Cooling, actuators

Thermostat: Multiple options: LCD (full Balance functions), Dial, Motion, or CO₂/Humidity

Communication: Optional Native BACnet MS/TP interface. (Baud: 9600, 19,200, 38,400, or 76,800)

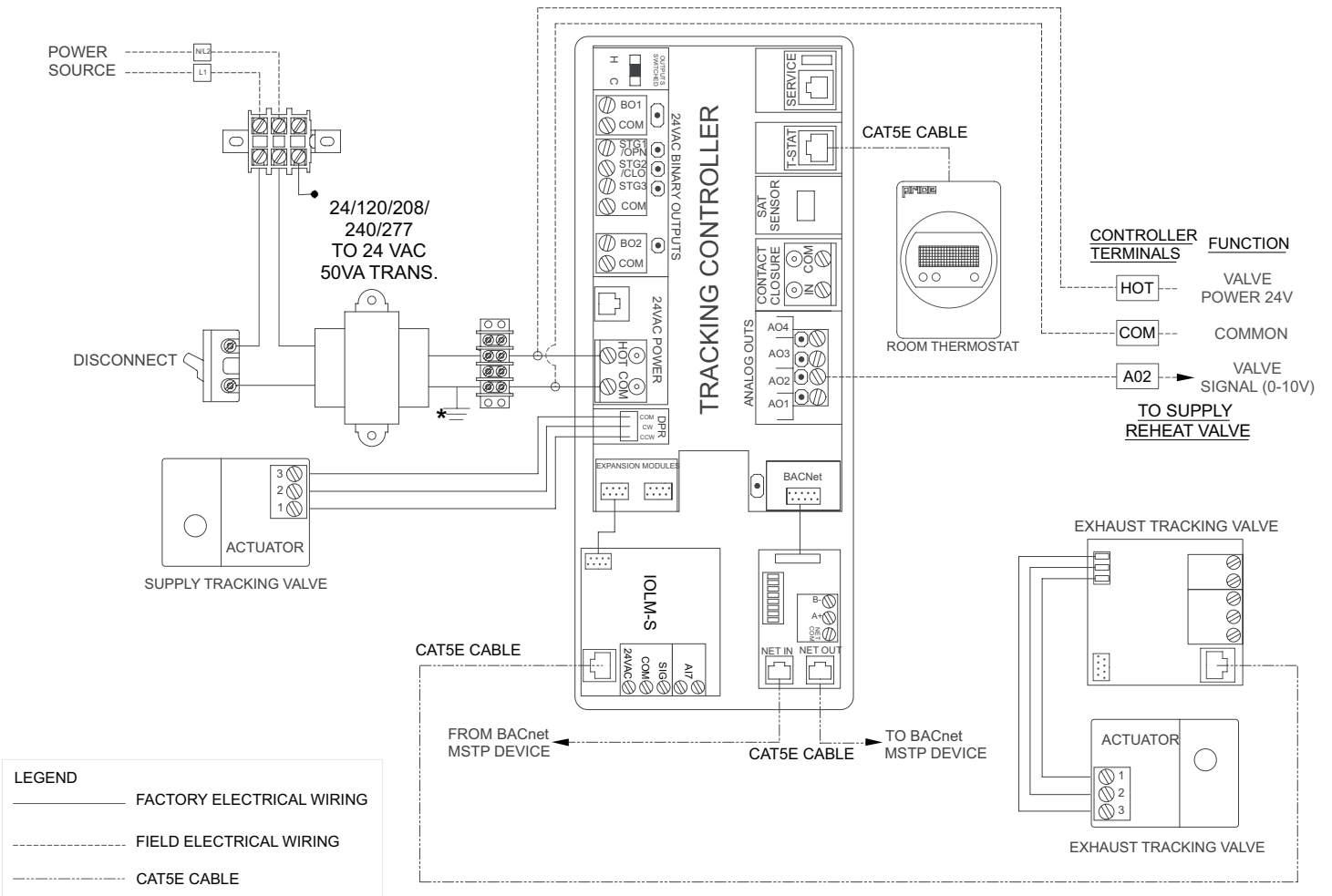
Actuator: (2) floating point actuators (24 VAC, 2VA each) – included

Indicators: LED's for analog and binary outputs, Status and Net Health

Connections: Pluggable terminal blocks, RJ45 (T-Stat, BACnet), RJ12 (Service)

Specifications subject to change without notice

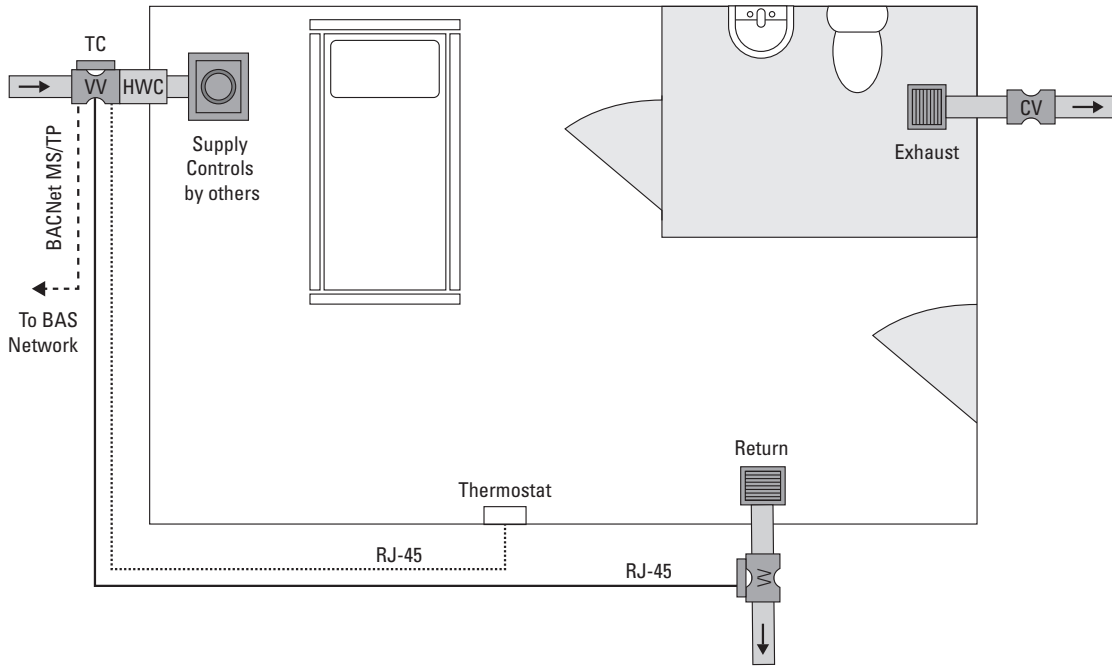
TYPICAL WIRING



Please contact your Price representative for more information on the use of a third-party thermostat.

TYPICAL APPLICATION

TC – Volumetric Offset Control



SELECTION CHART

	PM Room Pressure Monitor	PMX Room Pressure Monitor Deluxe	PMT Room Pressure Monitor Touchscreen	PC Room Pressure Controller	TC Tracking Controller	VC Valve Controller
Direct Pressure Control				X		
Dynamic Pressure Control				X		
Volumetric Offset Control				X	X	
Temperature Control				X	X	X
Humidity Control				X		
Pressure Monitor	X	X	X	X		
Secondary Room Support		X		X		
BACnet Communication		X	X	X	X	X
Analog Pressure Output		X	X	X		
Remote Station Interface		X		X		
Door Switch Input		X	X	X		
Keyswitch Interface		X	X	X		
Touchscreen Display			X			

PRODUCT CODE

TC-LM-LM-BAC-LCD

Product	Supply Flow Feedback Type	Exhaust Flow Feedback Type	Network Type	Thermostat Type
TC - Tracking Controller	LM - Electronic Flow Feedback Supply Valve LMX - Electronic Flow Feedback with Pressure Alarm Supply Valve SP300 - Airflow Feedback with SP300 Sensor Supply Valve SSS - Airflow Feedback with Stainless Sensor Supply Valve	LM - Electronic Flow Feedback Exhaust Valve LMX - Electronic Flow Feedback with Pressure Alarm Exhaust Valve SP300 - Airflow Feedback with SP300 Sensor Exhaust Valve SSS - Airflow Feedback with Stainless Sensor Exhaust Valve	BAC - Native BACnet MS/TP Network	SENS - T-Stat with Blank Face DIAL - T-Stat with Dial Setpoint Adjust LCD - T-Stat with LCD Screen LCDH - T-Stat with LCD Screen and Integrated Humidity Sensor MOT - T-Stat with LCD Screen and Motion Sensor CO₂H - T-Stat with LCD Screen and Integrated CO ₂ and Humidity Sensors