

FEATURES

- Retrofit existing pneumatic thermostats in minutes
- Programmable deadband that dynamically changes during night setbacks for increased energy efficiency
- Delivers DDC-like functionality
- Remote monitoring of temperature
- Remote monitoring of branch pressure
- Remote control of setpoint and deadband span
- Automatic self-calibration
- Occupancy override notification
- Programmable temperature setbacks
- No computer needed for programming of standalone thermostats
- Easy to install wireless system
- Optional BACnet/IP interface to integrate with the existing Building Automation System



Plug and play deadband wireless pneumatic thermostat replaces existing Siemens™, Honeywell™, Johnson Controls™, Robertshaw™ etc. units in minutes

The worldwide patent pending Deadband Wireless Pneumatic Thermostat (WPT-DB) delivers DDC-like functionality at a fraction of the time and cost without the need to change out pneumatic pipes, run wires, replace actuators or disturb tenants. Not necessary to upgrade entire building at one time; may selectively retrofit individual thermostats for incremental benefits:

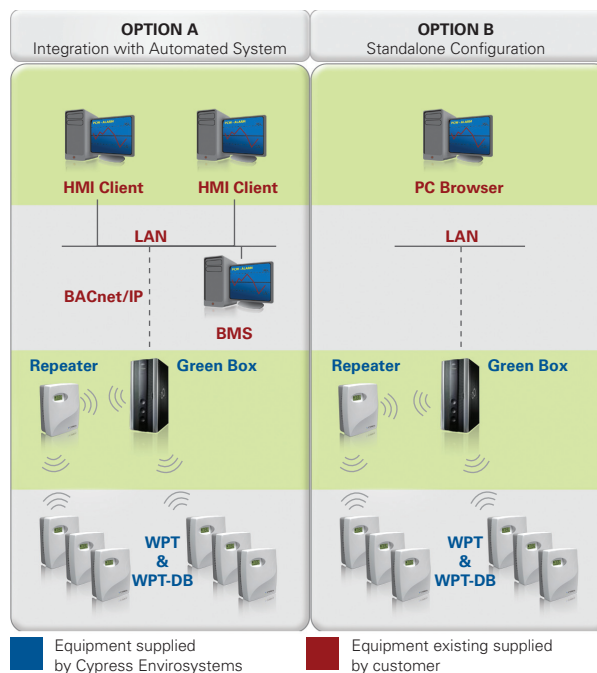
- Adjustable deadband
- Remote monitoring of temperature and branch pressure
- Automatic setpoint changes based on time-of-day schedule and night setback
- Automatic calibration for setpoint offsets
- Notification on occupancy override
- Early problem detection to avoid tenant/occupant complaints
- Zone control for optimal energy usage and comfort
- System can work standalone, or integrate with existing Building Automation System via BACnet/IP

Saves energy, improves comfort for tenants, and lowers maintenance costs of legacy pneumatic HVAC systems.

BENEFITS

- Digital zone control optimizes energy usage and comfort
- Night setbacks can dynamically adjust the deadband
- Programmable temperature setbacks saves energy
- Implement indoor temperature policies for added energy savings
- Enables use for utility Demand Response programs
- Occupancy override logs tenant after-hour usage
- Built-in diagnostics lowers maintenance cost

WPT SYSTEM ARCHITECTURE



KEY PRODUCT SPECIFICATIONS

DEADBAND WIRELESS PNEUMATIC THERMOSTAT (WPT-DB)

| | |
|-------------------------------------|--|
| Action: | Direct / Reverse Acting |
| Number of Pipes: | Single / Dual pipe |
| Setpoint Temperature Range: | 55°F to 85°F (13°C to 29°C) |
| Deadband pressure: | User adjustable. Default 8psig +/- 1 psig |
| Deadband Range: | 0°F (no deadband) to 20°F |
| Air connections: | 3/32" (2.5 mm) ID tube fittings |
| Max Pipe Operating Pressure: | 25 psi (170 kPa) |
| Airflow Usage: | 0.011 scfm (5.2 mL/s) |
| Sensitivity: | Factory adjusted to 2.0 - 2.5 psi/F |
| Operating frequency band: | 2.4 GHz ISM Band |
| Battery life: | More than 2 years (with 4 setpoint changes per day) |
| Operating Condition: | 32°F to 122°F (0°C to 50°C); 95% RH Maximum, Noncondensing |
| Storage Condition: | -40°F to 122°F (-40°C to 50°C); 95% RH Maximum, Noncondensing |
| Dimensions: | Length - 5.6 in (141mm) Width - 4.1 in (103.5mm) Depth - 2.1 in (53.3mm) |

OUR FAMILY OF PRODUCTS:



HEADQUARTERS

198 Champion Court

San Jose, CA 95134

+1 408 943 2800

www.cypressenvirosystems.com

info@cypressenvirosystems.com