

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:

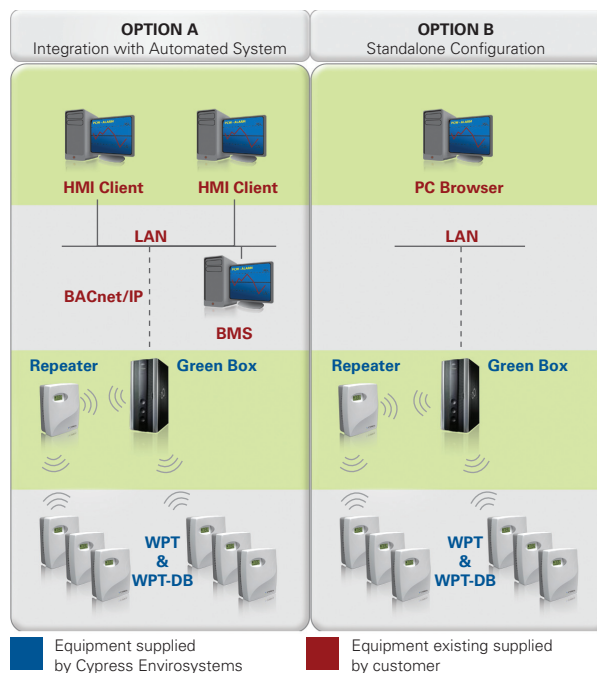
- Adjustable deadband
- Remote monitoring of temperature and branch pressure
- Automatic setpoint changes based on time-of-day schedule and night setback
- Automatic calibration for setpoint offsets
- Notification on occupancy override
- Early problem detection to avoid tenant/occupant complaints
- Zone 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)

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