

FEATURES:

- Retrofit existing pneumatic thermostats in minutes
- Delivers DDC functionality
- Connects to 10k Type 2 thermistor duct temperature probe
- Remote monitoring of branch pressure and duct temperature
- Remote control of setpoint
- Automatic self-calibration
- Occupancy override notification
- Programmable temperature setbacks
- Easy to install wireless system
- Built-in BACnet/IP interface to integrate with existing building automation systems

BENEFITS:

- Digital zone control optimizes energy usage and comfort
- Programmable temperature setbacks save energy
- Enables use for utility demand response programs
- Occupancy override logs tenant after-hours usage
- Diagnostic monitoring reduces maintenance and operating cost



Duct probe sensor optionally available

Plug and Play Wireless Pneumatic Thermostat (WPT) replaces existing Siemens, Honeywell, Johnson, Robertshaw units in minutes

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

- Separate setpoint control for heating and cooling
- Automatic setpoint changes based on time-of-day schedule and night setback
- Automatic calibration
- Notification on occupancy override
- Early problem detection to avoid occupant complaints
- Zone control for optimal energy use and comfort
- System can work standalone or integrated with existing Building Automation System (BAS) via BACnet/IP

Additionally, the duct air temperature input (-DAT) enables the WPT to interface to 10K Type 2 temperature sensors. This duct temperature reading is transmitted to the BAS using BACnet/IP, enabling more detailed monitoring of the HVAC system.

The WPT-DAT saves energy, improves comfort for occupants, and lowers maintenance cost of legacy pneumatic HVAC systems.

KEY PRODUCT SPECIFICATIONS:

Action:	Direct / Reverse Acting
Number of Pipes:	Dual Pipe
Setpoint Temperature Range:	55°F to 85°F (13°C to 29°C)
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) maximum
Sensitivity:	Factory adjusted to 2.0 – 2.5 psi/F
Sensor Accuracy:	+/- 0.7°F (0.4°C) for temperature
Temperature Sensor Interface:	10K Type 2 JCI (default). Additional thermistor curves supported upon request.
Operating Frequency Band:	902.000 MHz to 928.000 MHz
Battery Type:	Single ER26500, C-cell Lithium Thionyl Chloride, 3.6V
Battery Life:	More than two 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)

PART NUMBERS:

WPT-902-T2DP-DAT	Two pipe, direct acting, single setpoint with 10k Type 2 thermistor input
WPT-902-T2RP-DAT	Two pipe, reverse acting, single setpoint with 10k Type 2 thermistor input
WPT-902-T2DP-DB-DAT	Two pipe, direct acting, deadband setpoint with 10k Type 2 thermistor input
WPT-902-T2RP-DB-DAT	Two pipe, reverse acting, deadband setpoint with 10k Type 2 thermistor input

Note: All part numbers are available with optional humidity output. I.e. WPT-902-T2DP-DB-RH-DAT.
 Please contact Cypress Envirosystems sales for more information.

HEADQUARTERS

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