CYPRESS
ENVIROSYSTEMS™

FEATURES

- Retrofit existing pneumatic thermostats in minutes

- Delivers DDC-like functionality

- Remote monitoring of temperature

- Remote monitoring of branch pressure

- Remote control of setpoint

- Automatic self-calibration

- Occupancy override notification

- Programmable temperature setbacks

- No computer needed for programming for standalone thermostats

- Easy to install wireless system

- BACnet/IP interface to integrate with the existing Building Automation System

BENEFITS

- Digital zone control optimizes energy usage and comfort

- Programmable temperature setbacks saves energy

- Enables use for utility Demand Response programs

- Occupancy override logs tenant after-hour usage

- Diagnostic monitoring lowers maintenance costs

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

The worldwide patent pending Wireless Pneumatic Thermostat (WPT) 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.
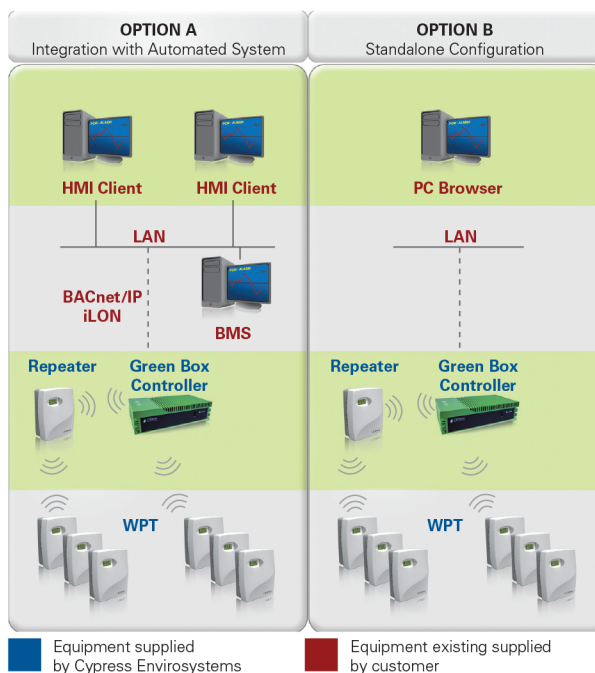
- Remote monitoring of temperature and branch pressure
- Automatic setpoint changes based on time-of-day schedule and night setback
- Automatic calibration for setpoint offsets
- Notification on occupancy override
- Early problem detection to avoid tenant/occupant complaints
- Zone control for optimal energy usage and comfort
- System can work standalone, or integrate with an existing Building Automation System via BACnet/IP interface

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

WPT SYSTEM ARCHITECTURE

OPTION A Integration with Automated System	OPTION B Standalone Configuration
HMI Client HMI Client	PC Browser
LAN	LAN
BACnet/IP iLON BMS	
Repeater Green Box Controller	Repeater Green Box Controller
WPT	WPT

■ Equipment supplied by Cypress Envirosystems
■ Equipment existing supplied by customer

KEY PRODUCT SPECIFICATIONS

SUMMER-WINTER WIRELESS PNEUMATIC THERMOSTAT (WPT-SW)

Action:	Proportional
Max Pipe Operating Pressure:	30 psig (207kPa)
Setpoint Temperature Range:	55°F to 85°F (13°C to 29°C)
Air connections:	3/32″ (2.5 mm) ID tube fittings
Airflow Usage:	0.010 scfm (4.6 mL/s) at 16 psig, 0.017 scfm (8.2 mL/s) at 25 psig
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)

Part Number	Replaces summer-winter thermostats manufactured by:	Direct Acting Main Pressure	Reverse Acting Main Pressure
WPT-802-DLS-SW	Schneider	16 psig (110 kPa)	25 psig (172 kPa)
WPT-802-RLS-SW	Schneider	25 psig (172 kPa)	16 psig (110 kPa)
WPT-802-DLH-SW	Honeywell	13 psig (90 kPa)	18 psig (124 kPa)
WPT-802-RLH-SW	Honeywell	18 psig (124 kPa)	13 psig (90 kPa)
WPT-802-DLJ-SW	Johnson Controls	15 psig (103 kPa)	20 psig (138 kPa)
WPT-802-RLJ-SW	Johnson Controls	20 psig (138 kPa)	15 psig (103 kPa)

OUR FAMILY OF PRODUCTS:

WIRELESS PNEUMATIC THERMOSTAT (WPT)	WIRELESS GAUGE READER (WGR-100)	WIRELESS STEAM TRAP MONITOR (WSTM-100)	WIRELESS FREEZER MONITOR (WFM-100)	WIRELESS TRANSDUCER READER (WTR-100)

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