



MAKING BUILDINGS BRILLIANT

SMARTPneumatics

Do you have legacy pneumatic thermostats?



Legacy Pneumatic Thermostats

- Hard to maintain
- Waste energy
- No communication
- No visibility
- No diagnostics
- Difficult to troubleshoot

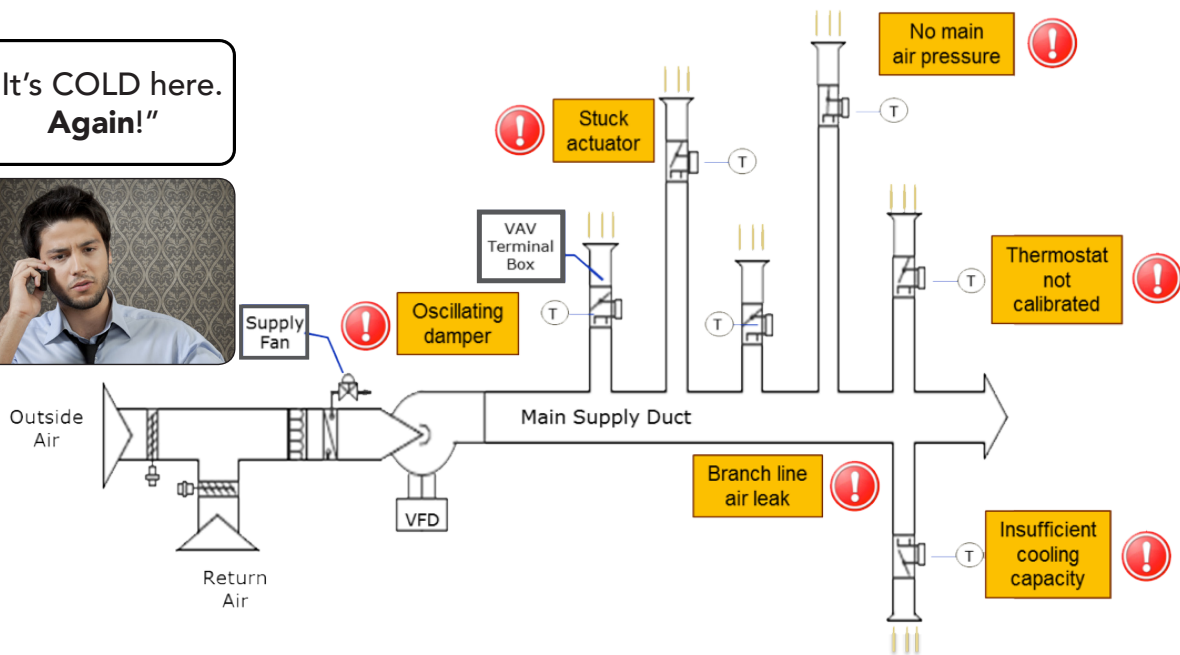
Cannot see lurking issues with pneumatics



"It's COLD here. Again!"



"Sorry, ma'am. We thought that was fixed."



SMARTPneumatics automatically identifies and prioritizes fault conditions

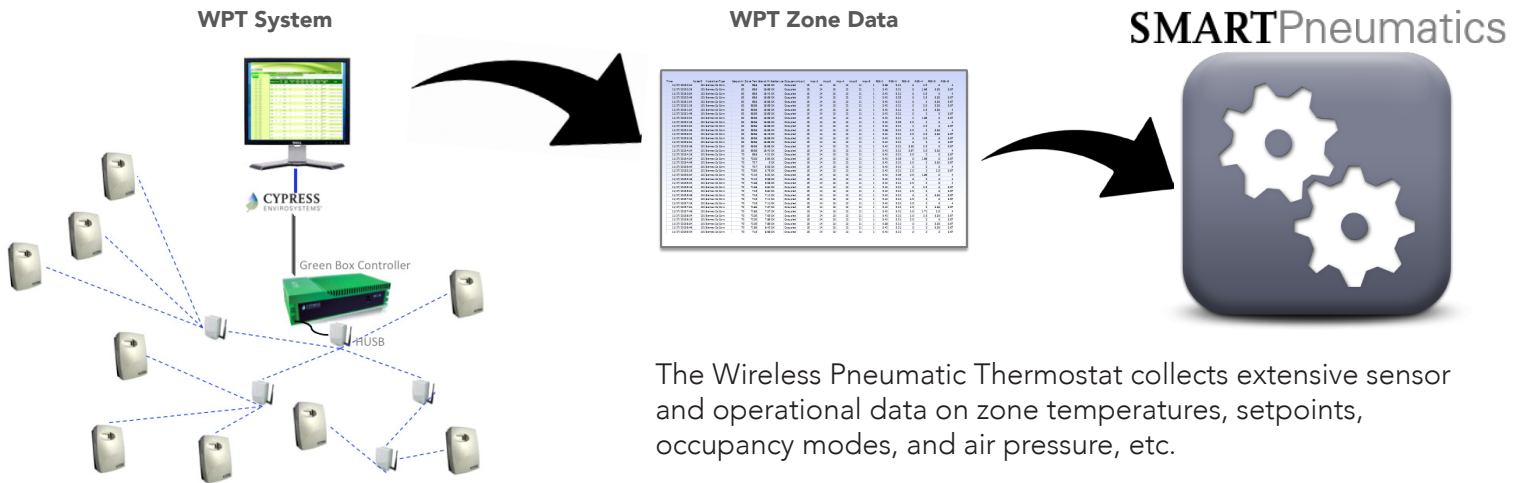


Wireless Pneumatic Thermostat

The Wireless Pneumatic Thermostat provides data for SMARTPneumatics to analyze pneumatic zones to identify:

- Stuck actuators
- Oscillating dampers
- Insufficient cooling
- Supply or branch line leak
- Calibration needed
- Air system contamination

How SMARTPneumatics works



Know what matters

SMARTPneumatics Output Report

SmartPneumatics Recommended Actions

K-12 Test Site

12/04/2015 to 12/10/2015

Stuck Actuator

<u>NodeID</u>	<u>Description</u>	<u>Recommended Action</u>
0119	O'Brien Rm 27	Check actuator

Insufficient Heating/Cooling Capacity

<u>NodeID</u>	<u>Description</u>	<u>Recommended Action</u>
0118	O'Brien Rm 25	Check insufficient cooling or actuator stuck closed.

Check Wireless Communication Strength

<u>NodeID</u>	<u>Description</u>	<u>Recommended Action</u>
0117	O'Brien Rm 30	56.5% delayed reporting. Check 1st hop/repeater paths.

Advanced patent pending analytics software performs fault detection diagnostics and produces an easy to read actionable report.

Benefits of SMARTPneumatics

Prioritize Maintenance

Reduce
Hot/Cold Calls

Improve Occupant
Comfort

Save Energy

Gain LEED Ongoing
Commissioning Points

Avoid Damage to
Equipment