

1. WPT Demo System

The parts included in the WPT Demo System are as follows:

- WPT Demo Stand consists of WPT mounted on a display stand along with pressure regulator, main pressure gauge, branch pressure gauge and pneumatic connections
- Compressor with a hose
- WPT USB HUB with external antenna
- CR123 Batteries (x2)
- 2MM Allen screwdriver
- 1/16" Allen screwdriver
- WPT Server Laptop (Demo version) with power adaptor

Follow the procedure described below to setup the WPT Demo System

Important: Please make sure that you follow the procedure in the same order mentioned below to ensure a smooth demo setup.

Please **DO NOT** change the system configuration or install other software applications in the WPT Server Laptop as it may cause the WPT Demo application to malfunction.

1.1 Start the WPT Server Laptop

To set up the WPT Server Laptop, perform the following:

1. Set the WPT Server Laptop in a secured place
2. Connect the power adaptor to the WPT Server Laptop



Connect the power adaptor

Figure 1: WPT Server Laptop (Demo Version)

3. Turn ON the Laptop power

On successful log in you will see the desktop of the WPT Server with the WPT USB Reader application running.

Note: please DO NOT connect the USB HUB until the WPT USB Reader application starts running.

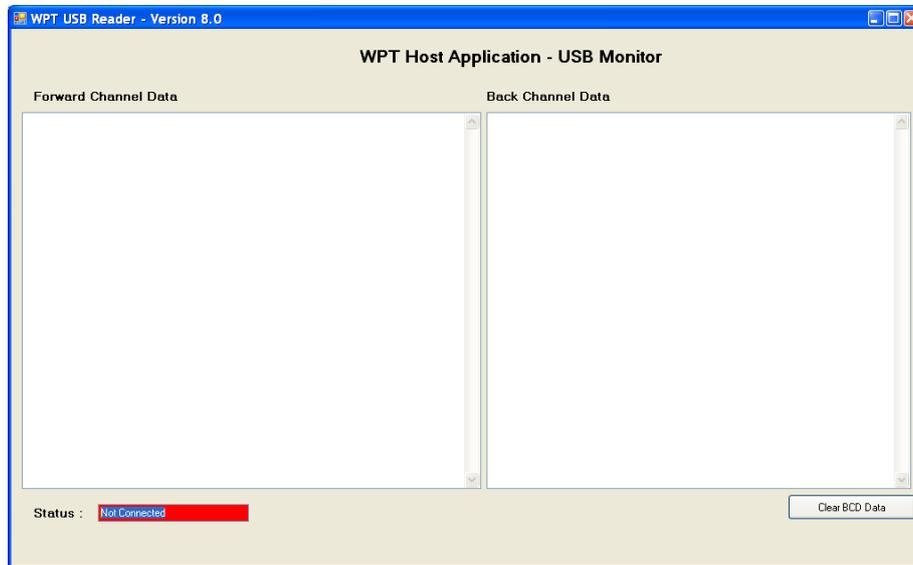


Figure 2: WPT USB Reader Application

Note: Please do not close the “USB Reader” application. If you have accidentally closed the USB Reader, please double click the “WPT_USBReader” application in the desktop.

1.2 Connect the USB HUB to the Server Laptop

1. Connect the external antenna to the Hub
2. Connect the Hub to the USB port of the WPT Server Laptop



Figure 3: Connecting the USB Hub to the server

- Note the **Status** on the USB Reader as “connected” and data appearing on the **Forward Channel Data** window and **Back Channel Data** window. It is normal to see “No BCD Data” on the **Back Channel Data** window

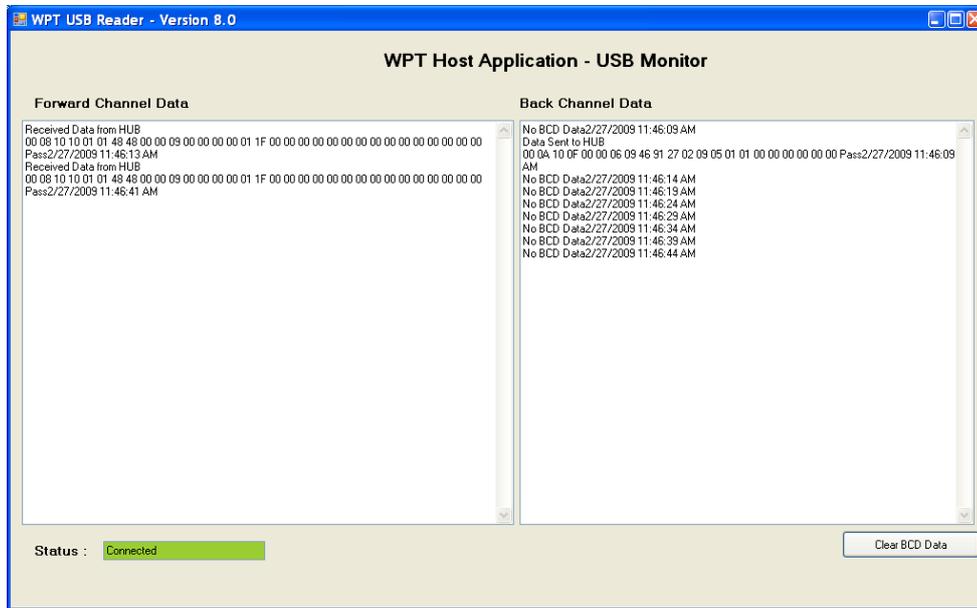


Figure 4: WPT USB Reader showing “connected” status

- If the **Status** shows “Not Connected”, try connecting to a different USB port.

1.3 Start the stat



Figure 5: WPT Demo Stand

- Connect the compressor air hose to the pressure regulator
- Connect the compressor power cable to a power socket and turn ON the compressor
- Open the front cover of the WPT, insert batteries, and press any button to turn it ON

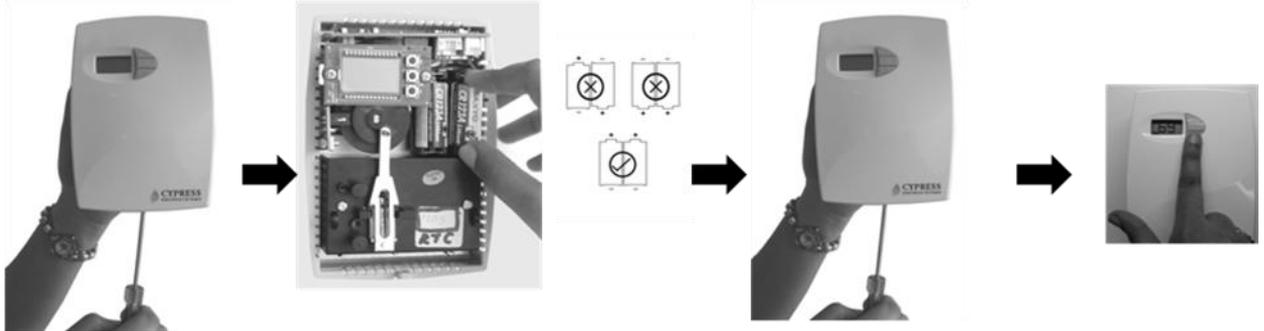


Figure 6: Starting the WPT

4. Adjust the Main pressure to 20 PSI using the **Main Pressure Regulator** knob
5. Set the setpoint to 55 and check if the branch pressure increases above 10 PSI
6. Set the setpoint to 80 and check if the branch pressure goes below 3 PSI

Note: if you do not notice branch pressure change on increasing and decreasing the setpoint, you need to recalibrate the stat as per the procedure explained in section 1.5

1.4 Calibrate the stat, if required

The pneumatic stats tend to go out of calibration while they are moved around during travel. Use the following procedure to calibrate the stat.

1. Remove the front cover of WPT.
2. Make sure that the WPT is acclimatized to the ambient temperature. This can take 5 to 10 minutes after attachment to the wall. The Bi-metallic spring is very sensitive to body heat. Keep hands and breathe away from WPT to minimize calibration error.
3. Adjust the Main pressure to 20 PSI using the **Main Pressure Regulator** knob
4. The black throttling range adjuster has been factory set to the location marked on the lever as shown in Figure 7. The factory setting provides a Throttling Range of about 5F. The TR adjuster is very sensitive and should not be moved more than ± 0.100 " from Factory Setting. The Bi-metallic strip can be damaged if enough care is not taken while moving the throttling range adjuster. Use a gentle nudging motion on the throttling range adjuster, without exerting force on the Bi-metal strip as this type of force will likely damage the Bi-metallic strip.
5. Set the setpoint manually using the ▲ or ▼ key to match the ambient temperature value displayed on the LCD.
6. Set the WPT for the branch line pressure measurement mode.
7. Use a 1/16" hex Allen wrench and very carefully turn the calibration set screw on the thermostat lever as shown in figure 7, until the branch pressure reads around 8 PSI.

Use extreme caution not to allow the lever to rotate sideways while adjusting the setscrew. Damage to the Bi-metallic Spring can result if the end of the lever is allowed to move left, or right, by more than 1/16". Note down the ambient temperature displayed on the LCD

Note: Turning the calibration set screw clockwise decreases the branch pressure and turning it anti-clockwise increase the branch pressure

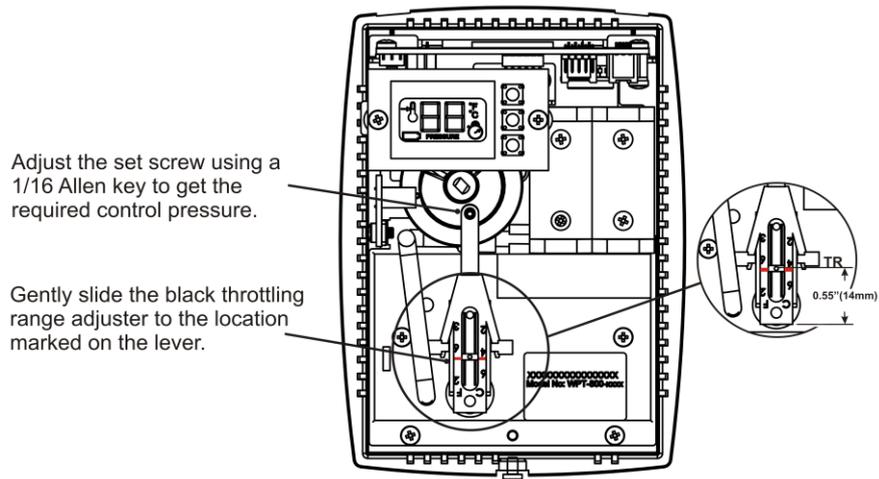


Figure 7- Calibrating the thermostat

1.5 Access the WPT Web Application

1. Open the Internet Explorer and type the URL <http://localhost/>

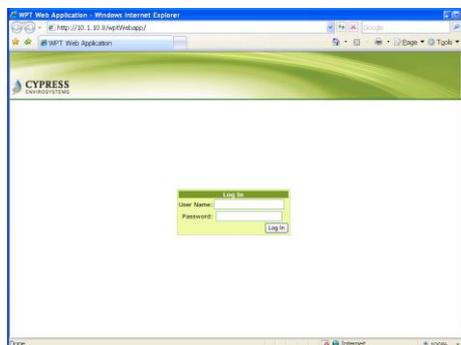


Figure 8- Logging to the WPT Web Application

2. Login to the WPT Web Application using the following information

Username: demo

Password: demo

- On successful login, you will see the Dashboard with the latest reading with current timestamp

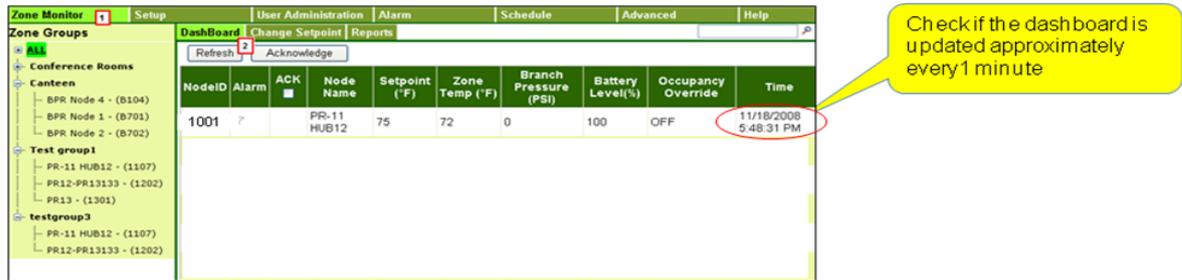


Figure 9: WPT Dashboard

- Change the setpoint from the WPT Web Portal and check if the setpoint is updated on the WPT within 1-2 minutes

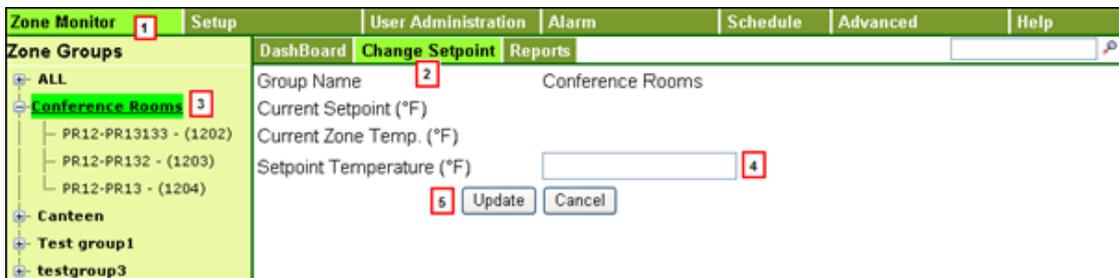


Figure 10: Changing Setpoint

Note: After the setpoint is changed on the stat, it takes an additional 1 minute before the new setpoint value is updated on the dashboard. Pressing the keypad while WPT is updating the setpoint might delay the update time.

- After 1 min from the time the setpoint is changed on the stat click **Refresh** button on the Dashboard to see the new Setpoint value

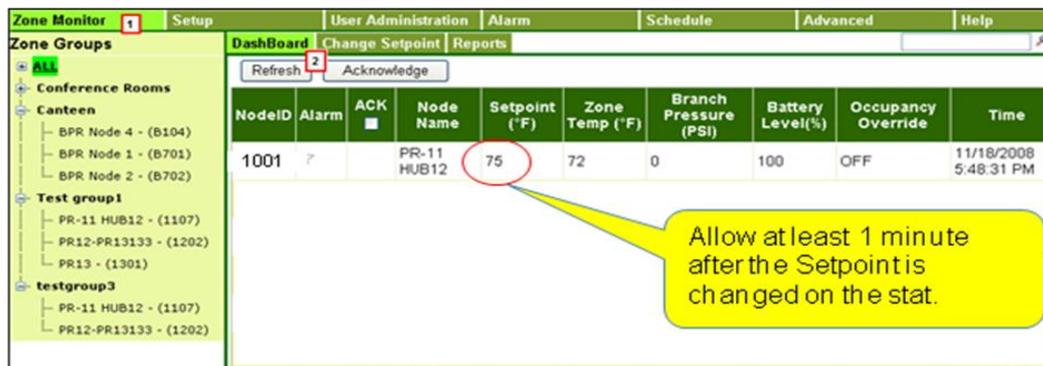


Figure 11: Setpoint updated on the Dashboard

2. Troubleshooting the WPT Server

Symptoms / Error	Solutions
WPT Server Laptop not booting	Check if the power supply to the WPT server.
The branch pressure doesn't change by changing the setpoint	Check the Main pressure and calibrate the stat, if required.
WPT USB Reader Application is not visible	If the WPT USB Reader application is closed, restart it by double clicking on the "WPT_USBReader" icon on the WPT Server Desktop.
Latest stat readings are not updated on the Dashboard	<p>Click Refresh button on the Dashboard</p> <p>Check and make sure the WPT USB Reader application is running.</p> <p>Check and make sure the WPT's Network ID is 1 and Node ID is 1001</p> <p>If problem persists, restart "WPT_DiagnosticService" service in the Microsoft Management Console. To access services, goto Start → Run, type "Services.msc", click OK.</p>