PressureWEB Setup & Operation Instructions

Introduction

PressureWEB™ is a software application that provides key PressureMAP™ system data and reports in web browser (html) format via the Internet. Available with shipments of our PressureMAP software beginning with Version 26, PressureWEB provides users with fingertip access to pertinent office and device data.

Once it has been installed on the computer equipment which runs the PressureMAP application, PressureWEB is available to anyone who has a web browser and access to the network on which the PressureMAP software resides.

The application utilizes web cookies to display one or more lists of selected offices—assuming that you previously defined them—every time you launch the application. Additionally, much of the information generated by the application is presented in pop-up windows in order to optimize the display of data. Due to these requirements, some simple browser setup procedures are necessary. The information below explains how to configure your browser settings for optimum PressureWEB performance. It also describes the important screens that are provided and explains how to use the hyperlinks to access reports and information.

Please note that the explanations in this revision of the document pertain to PressureWEB Version 3.0, which accompanies the latest PressureMAP Version 27 product.

Browser Setup

Setup Requirements

In order to maximize the performance of PressureWEB, there are two web browser setup requirements that should be performed. The first is to enable web browser cookies, and the second is to make sure that pop-up windows are allowed to display. These basic web browsing requirements will ensure that: 1) you are able to select which offices you would like to have displayed when you launch the application, plus other report display options, and 2) you are able to see all of the information available from PressureWEB in its intended format.

It is possible that your web browser already has cookies enabled and is set to allow pop-up windows to display. You can check by following the procedures below or simply launching the application, as described on page 7. If your computer blocks them, you can set your system to accept cookies and display pop-up windows for all web sites or just for PressureWEB.

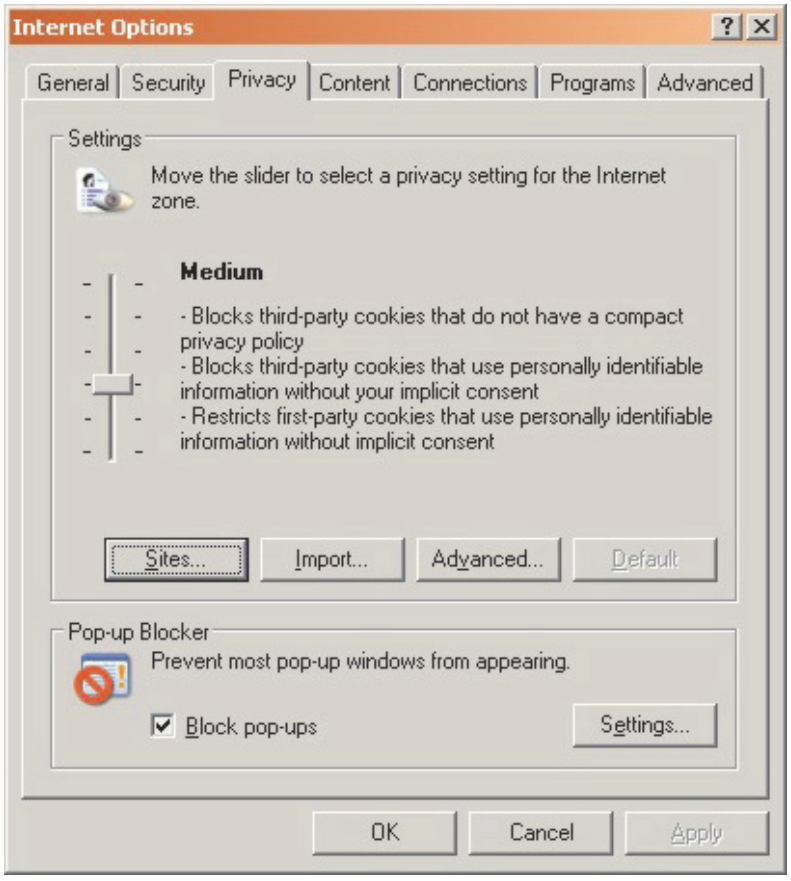
Web Browser Cookies

Setting Permissions for Personal Display Preferences

As mentioned above, PressureWEB uses cookies to display listings of selected offices and a variety of report display preferences. Every time you launch the application, the offices that you have defined in the program's *Setup* utility are displayed automatically in your web browser. The following procedures describe how to enable cookies on a computer system that runs Windows XP®. Similar procedures can be followed if you are using Windows Vista®, Windows 7® or other operating systems.

Procedures

1) To enable cookies on a Windows machine, access the *Control Panel* and select *Internet Options*. Please note that if you are using Windows Internet Explorer and the browser is open, you can also access *Internet Options* from the *Tools* button on the Menu Bar. An Internet properties box similar to the one shown below will display.

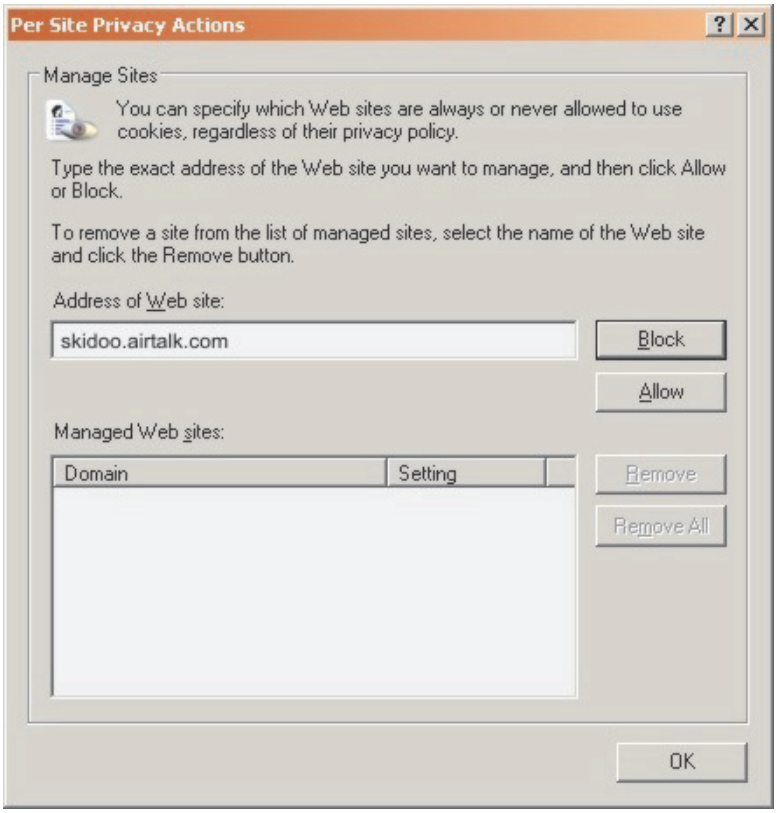


Screen 1: Internet Option

2) Slide the vertical adjustment bar all the way to the bottom to accept cookies from all web sites; otherwise, leave it slightly below the middle of the scale (Medium) or lower (Low). Click the *OK* button to finalize the change.

3) If you normally block all cookies, but still want to store a cookie for PressureWEB, click the *Privacy* tab in *Internet Options Properties*. Then click *Sites*.

   This produces a new window, as shown in Screen 2, where you can enter the IP address of the PressureMAP System that hosts PressureWEB.



Screen 2: Privacy Setting

4) Click inside of the Address box and type the IP address or Domain Name of the MAP Engine or other selected computer where the PressureWEB application has been installed.

5) Next click the *Allow* button, and the web server information you entered will display in the *Managed Web sites* text area.

6) Confirm that the information is correct, change it if necessary, and then click the *OK* button to allow cookies from PressureWEB to be set in your browser.

Pop-Up Blockers

Enabling the Display of Important Program Information

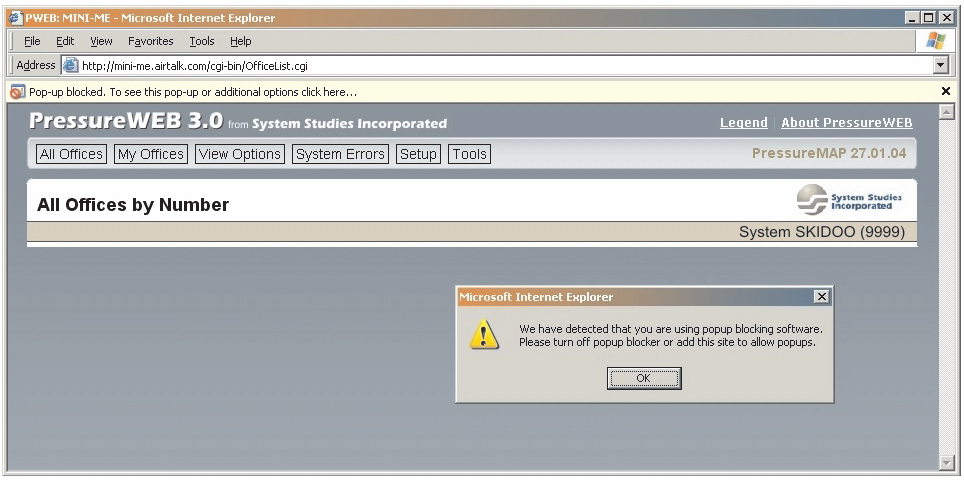
Pop-up windows are used by PressureWEB to display information and provide user input capabilities. In order to take advantage of all the information and features offered by PressureWEB, you will need to make sure that pop-ups are allowed in your selected web browser(s). This pertains to any Microsoft or third-party pop-up blockers that are enabled.

Procedures

1) Before you can access PressureWEB, you will need to obtain the IP address or Domain Name of the MAP Engine computer that is running PressureWEB. If this information is not readily available, contact your IT or network personnel for assistance.

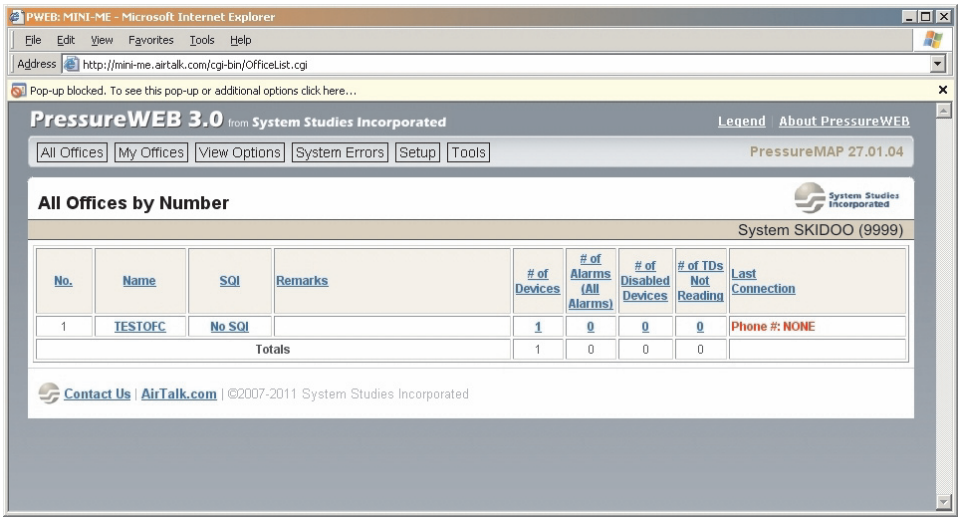
2) Type the IP address or DNS name of the MAP Engine computer into your web browser's address line and press ***<Enter>***. The PressureWEB application launches and briefly displays a Welcome Screen (Screen 3) followed by a screen with a Pop-Up Blocking alert (Screen 4).

Screen 3: Welcome Screen



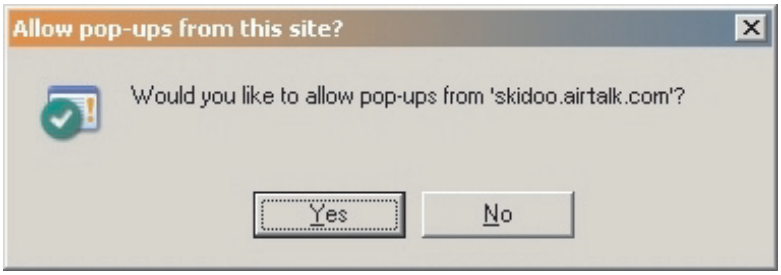
Screen 4: Popup Blocking Alert

3) Click the ***OK*** button on the Microsoft dialog box, and then click on the message, ***Pop-up blocked. To see this pop-up or additional options click here...***. This message is located in the yellow area above the PressureWEB title (see above). Once you click the message, a drop-down menu displays, as shown in Screen 5.



Screen 5: Allow Popups Selection

4) Highlight the second option, ***Always Allow Pop-ups from This Site. . .*** Once you have made this selection, an Internet Properties box displays (Screen 6).



Screen 6: Allow Popups Confirmation

5) This box displays the domain name or IP address of the PressureWEB server and asks you to confirm your intention. Click the ***Yes*** button to complete the Windows setup requirements for viewing PressureWEB on your selected laptop or PC browser.

The procedures for turning off the pop-up blocker in other browser versions differ, depending upon the specific browser in use. Once again, please refer to the browser's documentation and/or tool bar *Help* selection for additional information about this topic.

This completes the basic web browser setup requirements for viewing PressureWEB data. PresureWEB now launches automatically, and you can begin to set up your *My Offices* selections and other viewing options, if desired, as explained in the subsection below.

PressureWEB Setup

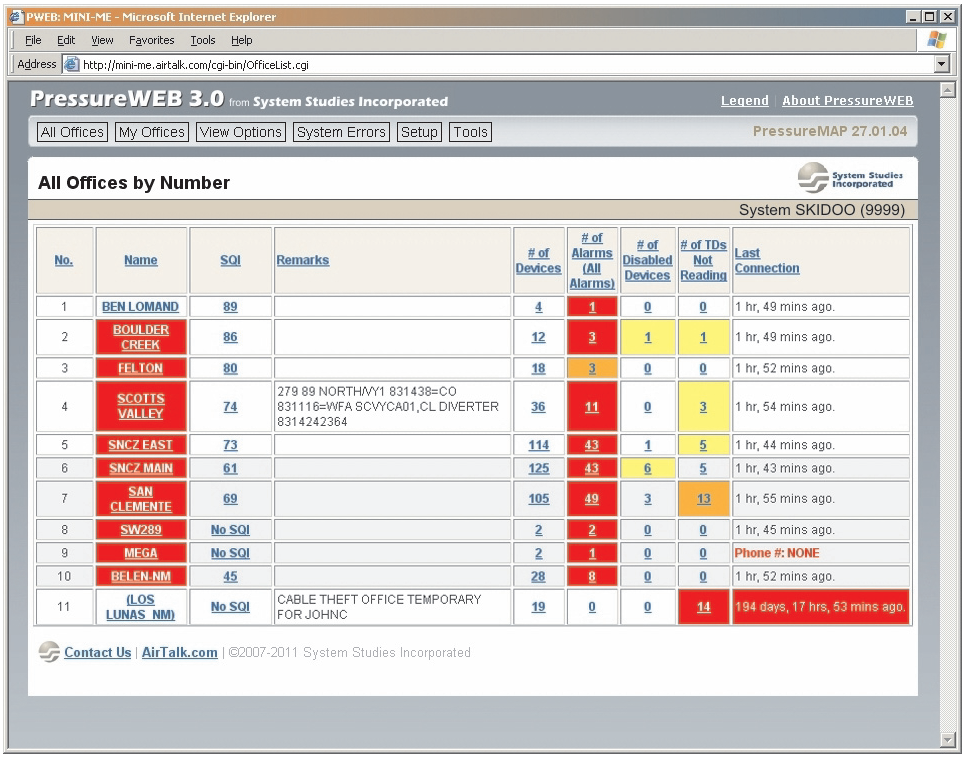
The following procedures describe how to launch PressureWEB, set up a *My Offices* listing, and customize several data/report displays. Once you have defined a list or multiple lists of offices that you would like to access on a regular basis, you can bookmark the *My Offices* page to use as your starting point for all future PressureWEB sessions. If desired and acceptable within your organization, you can also make this page your default home page. Please consult your IT personnel or refer to the browser documentation, if necessary, for information on specifying a new home page.

The previous sub-section describes the initial process of logging onto PressureWEB and setting up the browser to accept pop-up windows. Those procedures assume that you have access to the IP address or domain name assigned for your PressureWEB server.

Procedures

1) Type the IP address or DNS name of the MAP Engine computer into your web browser's address line and press ***<Enter>.***

   The first time PressureWEB is launched in your browser (or the first time after you delete your browser's cache and reload PressureWEB, the introductory (splash) page shown in Screen 3 will appear in the center of the browser. This screen displays for 3 or 4 seconds, followed by the *All Offices* display (Screen 7).

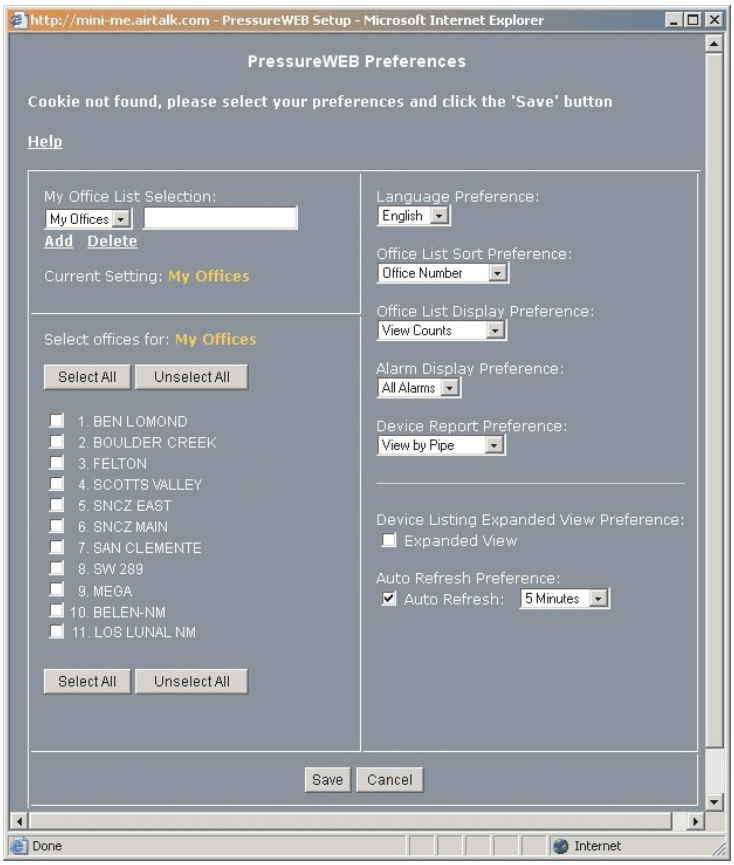


Screen 7: All Offices

Notice at the top of the *All Offices* display that there are six links: *All Offices*, *My Offices*, *View Options*, *System Errors*, *Setup* and *Tools*. If you are not interested in viewing all of the offices in your PressureMAP system each time you launch PressureWEB, you can select one or more smaller lists of offices for viewing. As described below, you can also set seven PressureWEB display options. All of these settings are initiated from the *Setup* link located at the top of the display. Your selections are saved as web browser cookies on your computer, which PressureWEB identifies and uses to generate the desired display(s) each time you access the application.

Note: As explained in the preceding subsection, you must have cookies enabled in your web browser in order for this function to work.

2) To define your viewing options, click on the ***Setup*** link in the navigation bar located at the top of the browser display. PressureWEB then generates a pop-up window similar to the one shown below (Screen 8). This window is divided into two main columns. The section on the left is used to select and name one or more *My Offices* lists. The right side includes text menus and check boxes for predefining the look and content of your PressureWEB data displays.



Screen 8: PressureWEB Preferences

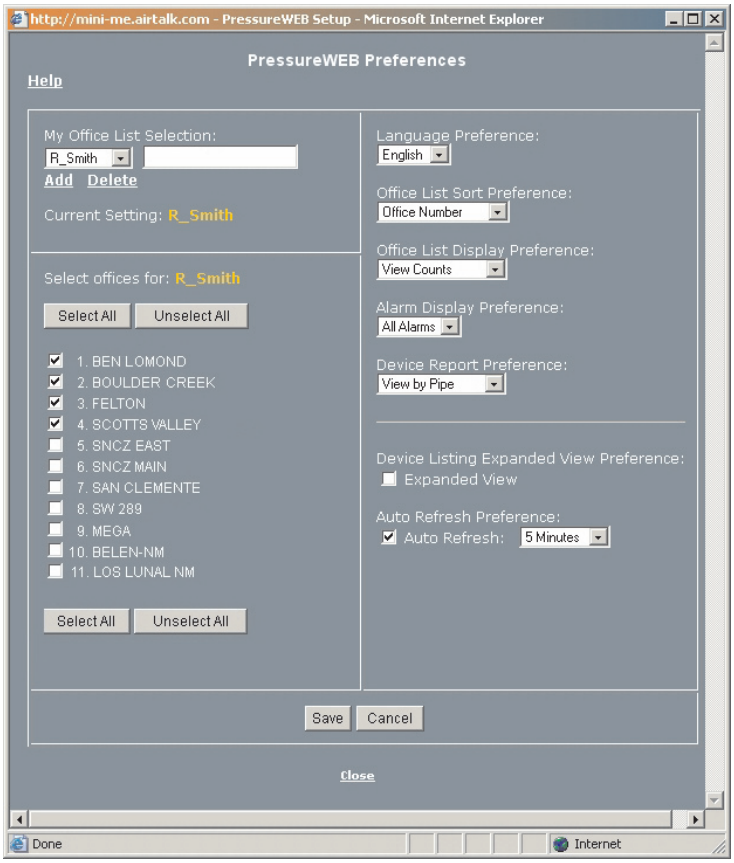
My Offices Selections

3) New in PressureWEB 3.0 is the ability to name, add and/or delete one or more *My Offices* lists. Initially, the *My Offices* title is displayed in the drop-down menu located below the *My Office List Selection* heading. If you plan to select only one *My Offices* list and do not want to assign a unique name to it, simply select the desired offices by clicking the check boxes opposite their names. A scroll bar is provided so that you can easily view all of the offices in your PressureMAP system. You can select as few or as many as you like. If you inadvertently select an office or offices that you do not wish to add to *My Offices*, uncheck the desired office or click the *Unselect All* button and start the selection process over.

Finish the process by clicking the ***Save*** button to create the *My Offices* cookie in your web browser.

Named Office List Selection

4) To define another office list, simply type the desired name in the text box located below the *My Office List Selection* heading. Then press the *Add* link. Notice that the name you entered is now displayed next to *Current Setting* in orange type (Screen 9). Add the desired offices for this list as explained above, and click the *Save* button. Repeat this procedure for any additional lists you would like to name and define.



Screen 9: Named Office List Selection

If, at any time, you wish to delete a previously defined office list, select the name from the *My Office List Selection* drop-down menu and press the Delete link. An operating system dialog box appears asking if you wish to delete the selected list. If, yes, click *OK* and the list will be removed from the menu.

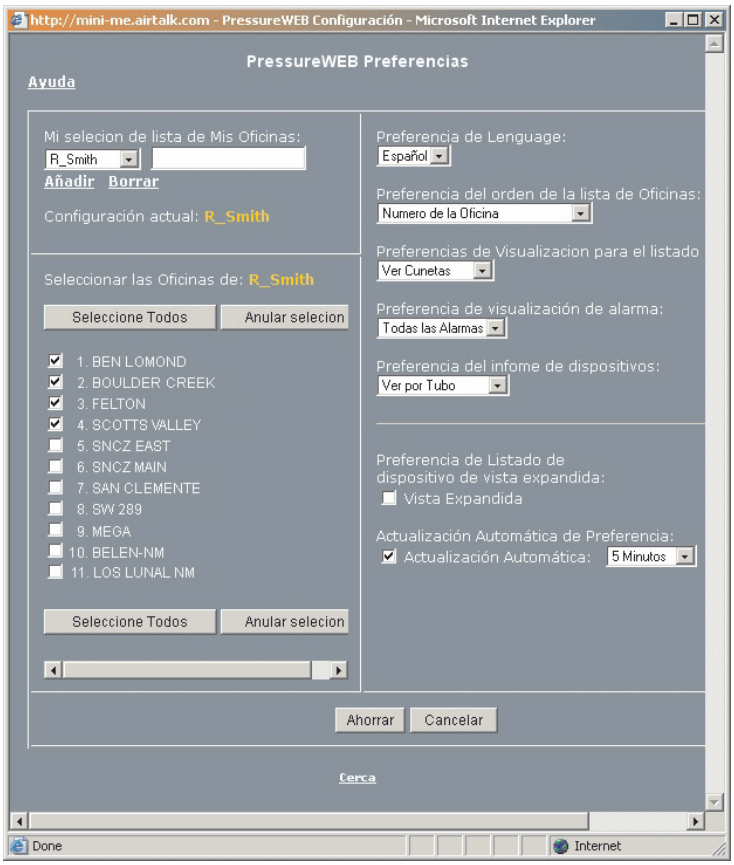
Important !

Note: Once your office list selection(s) has been made and saved, PressureWEB displays the *My Offices* list as the default screen when you launch the application. If you have defined more than one list, the *My Offices* listing that will be displayed as the default screen is the one that was last selected and saved before you closed the S*etup* preference selections pop-up window. It is the designated list name that is displayed in orange type as the current setting.

Display Preference Selections

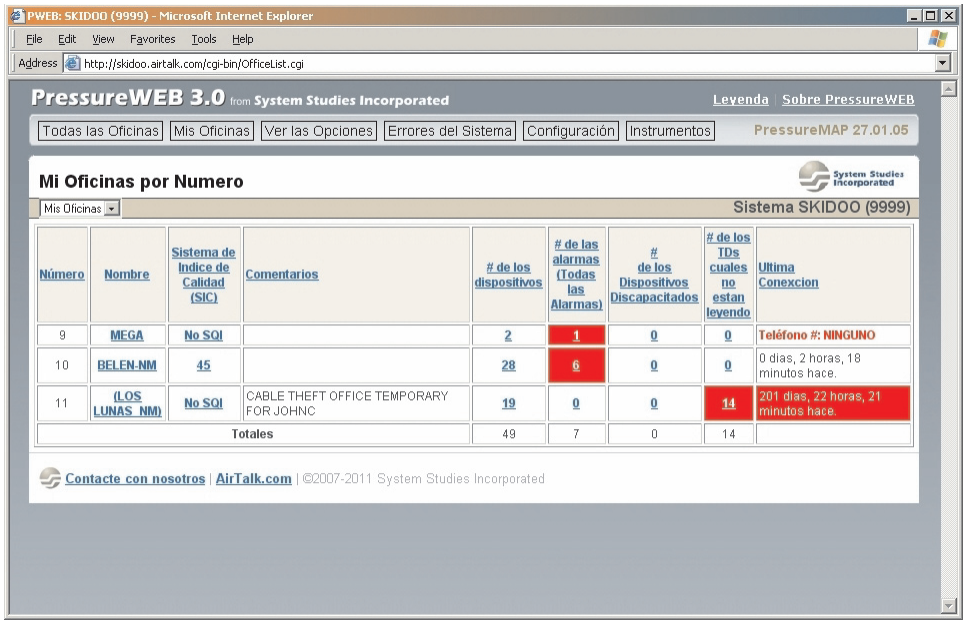
5) Located on the right side of the PressureWEB Preferences pop-up window are the various report display options that are available for PressureWEB 3.0. Select the desired report preferences using the drop-down menus or check lists provided. Listed below is an explanation of what each option provides:

- ***Language Preference***. Currently two language options are available for PressureWEB: English (default) and Spanish. If you were to select *Spanish* as your language choice, the information displayed on the PressureWEB Preferences pop-up screen would change immediately to Spanish (as shown below).



Screen 10: Translated Preferences Display

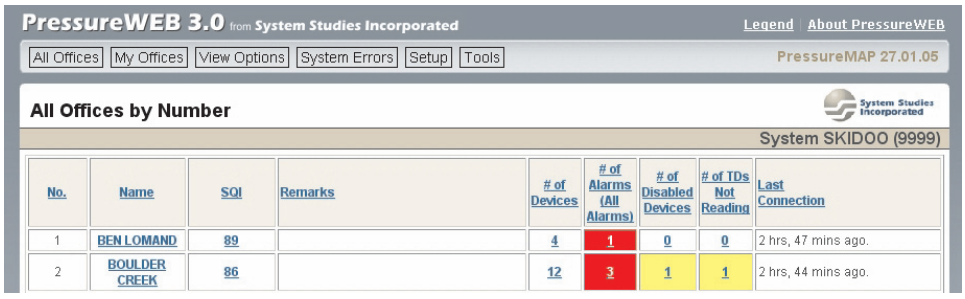
Not only is the *Setup* preference information translated, all of the PressureWEB report information will be displayed in Spanish as well. This includes column headers, data field tags, column description information, etc.



Screen 11: Translated My Offices Display

- ***Office List Sort Preference***. This display preference allows you to choose to have your *All Offices* and *My Offices* listings initially sorted by Office Number, Office Name, Office SQI (worst to best), Office Alarm Count or Office Alarm Time. Please note that you can also make these office sorting selections in the All Offices and My Offices displays by clicking on the *View Options* link located on the main navigation bar.

- ***Office List Display Preference***. You can have the Alarms, Disable Devices and TDs Not Reading columns in the offices display set to show percentages or counts (for example *% of Alarms*, *% of Disabled Devices*, *% of TDs Not Reading* – or – *# of Alarms*, *# of Disabled Devices*, *# of TDs Not Reading*). Screen 12 identifies these display columns.

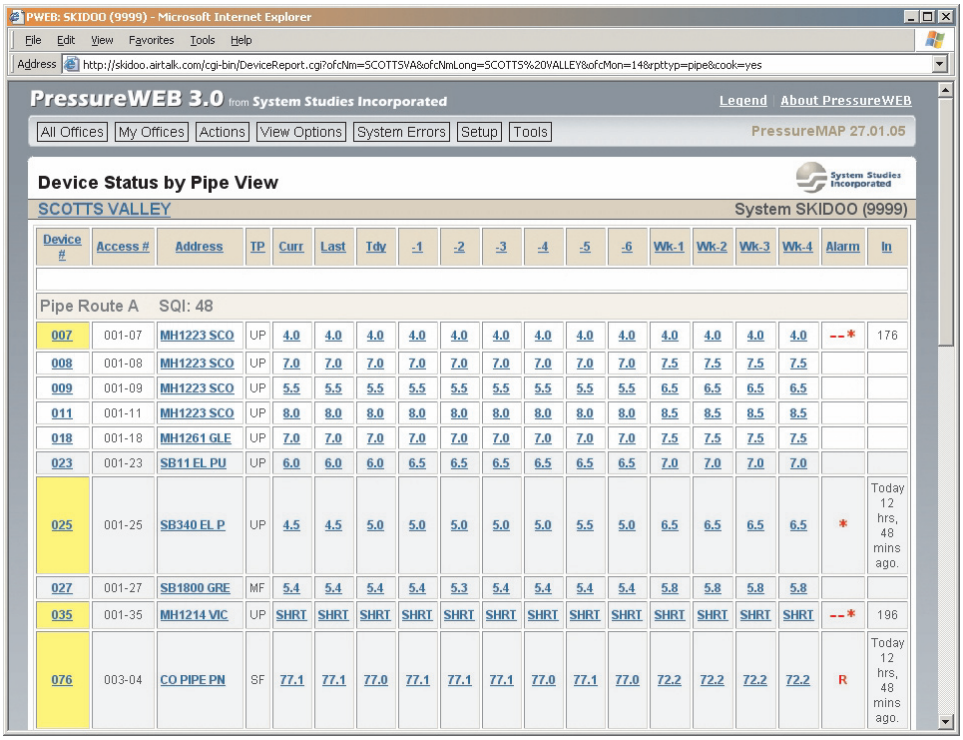


Screen 12: Affected Office List Display Columns

- ***Alarm Display Preference***. Using this preference selection, you also have the ability to specify what level of alarms will be displayed in the Alarm column. You can view all alarms, all 1 star alarms and above, all 2 star alarms and above, all 3 stars and greater, or only the 4 star alarms.

- ***Device Report Preference***. With this control you can set the initial sorting function of your Device View options. Choose from among View by Pipe, View by Location, View by Alarm, View by Device, View by Type, View by Access # or View by Circuit # (Chatlos offices).

- ***Expanded View Preference***. The next item in the display preferences utility allows you to expand the device readings on PressureWEB's Device Status Reports. When the *Expanded View* box is checked, the display will include readings for: Curr (most recent reading), Last, Tdy (the settled early morning reading), the six preceding daily readings (-1 through -6), and weekly reading averages for the past month (WK-1, WK-2, WK-3, and WK-4). In the normal, non-expanded mode, device readings are provided for Curr, Tdy and WK-1.



Device #	Access #	Address	TP	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4	Alarm	In
Pipe Route A SQI: 48																		
007	001-07	MH1223 SCO	UP	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	--*	176
008	001-08	MH1223 SCO	UP	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5		
009	001-09	MH1223 SCO	UP	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.5	6.5	6.5	6.5		
011	001-11	MH1223 SCO	UP	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.5	8.5	8.5	8.5		
018	001-18	MH1261 GLE	UP	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.5	7.5	7.5	7.5		
023	001-23	SB11 EL PU	UP	6.0	6.0	6.0	6.5	6.5	6.5	6.5	6.5	6.5	7.0	7.0	7.0	7.0		
025	001-25	SB340 EL P	UP	4.5	4.5	5.0	5.0	5.0	5.0	5.0	5.5	5.0	6.5	6.5	6.5	6.5	*	Today 12 hrs, 48 mins ago.
027	001-27	SB1800 GRE	MF	5.4	5.4	5.4	5.4	5.3	5.4	5.4	5.4	5.4	5.8	5.8	5.8	5.8		
035	001-35	MH1214 VIC	UP	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	SHRT	--*	196
076	003-04	CO PIPE PN	SF	77.1	77.1	77.0	77.1	77.1	77.1	77.0	77.1	77.0	72.2	72.2	72.2	72.2	R	Today 12 hrs, 48 mins ago.

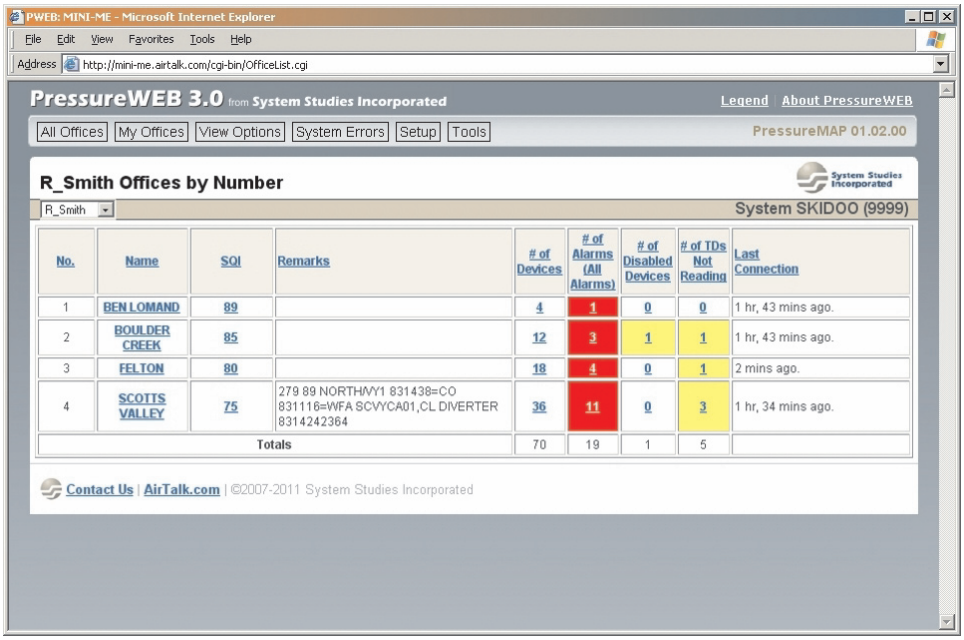
Screen 13: Expanded Device Status by Pipe View

- ***Auto Refresh Preference***. This final checkbox, *Auto Refresh*, enables you to activate or deactivate the automatic refresh function for PressureWEB's *All Offices* and *My Offices* displays. If you select the Auto Refresh function by clicking the checkbox, you can also use the drop-down menu to choose from one of the following refresh rates: 3 minutes, 5 minutes (default value), 10 minutes, 20 minutes, 30 minutes or 60 minutes.

6) Once you have made your setup selections, scroll to the bottom of the window, and click the ***Save*** button. The contents of the pop-up window changes momentarily to indicate that PressureWEB is *Saving cookies to the web browser*.

7) Scroll to the bottom of the window and click the ***Close*** button. This removes the pop-up window from view.

8) To confirm that the office selections that you have made appear in the *My Offices* listing, click the *My Offices* link on the PressureWEB navigation bar. The browser display will refresh to show the last named *My Offices* list, if any, that you defined above. If you did not select and name any office lists, the display will include the individual offices you chose for *My Offices*. The screen will also reflect any Device Report and Office List Display Preference selections you may have made. The next time you launch PressureWEB, your *My Offices* listing will display automatically (similar to Screen 14).



Screen 14: Expanded Device Status by Pipe View

Completing the setup and installation instructions described above will give you access to your customized PressureWEB application. Once there, you can click on the application's many hyperlinks to access the desired information.

PressureWEB Reports and Navigation

Finding Your Way Around PressureWEB

The biggest convenience of PressureWEB is that it provides quick access to important report information for the offices you are most interested in viewing. Not only do you not have to scroll through numerous text-based menus to locate desired information, you very seldom have to make a keyboard entry. Nearly all of the information you need is available by using your mouse to click on the many hyperlinks provided.

Key Program Reports and Displays

The following information describes how to navigate through the commonly used areas of the application. It offers a quick overview of the important information provided. Once you begin to use PressureWEB, you will soon discover that it is an intuitive and streamlined application.

The My Offices Listing

As described in the preceding section, once you have selected the offices you are interested in viewing on a regular basis, your primary access point into PressureWEB will be the *My Offices* display shown in Screen 14. System Studies recommends that you bookmark this web page in your favorite browser for quicker access. You might even consider designating it as the home page in your web browser so that it will display first when you launch your browser.

In addition to the six hyperlinked topics in the navigation bar at the top of the screen (underlined items) and the column headings in the table, both the *All Offices* and *My Offices* displays include six columns of data which provide additional hyperlinking options.

- **Office Name**—clicking an office name takes you to the Device Status View that you selected during the setup process described on page 12. The default screen is the *Device Status by Pipe View*. This screen will display when you click an office name, unless you selected one of the other views as your primary Device Status View during the setup process.

- **SQI**—this link generates an *SQI by Pipe Report* for the selected office, which includes a listing of the SQIs for the individual routes in the office as well as the office total. SQIs are provided for each day of the week, plus weekly averages for the four preceding weeks.

- **# of Devices**—when clicked, produces a *Device Status by Device View* for the selected office. It includes all of the monitoring devices for the office arranged by device number in ascending order.

- **# / % of Alarms**—the information displayed in this column is based upon selections made during the *Setup* function for the Office List Display Preference and the Alarm Display Preference.

Depending upon your preference selections, you will see either all 4-Star alarms, all 3-Stars and above, all 2-Stars and above, all 1-Stars and above, or All alarms (including the routine dispatches that PressureMAP provides in its Dispatch Report). The values displayed in the column represent either the number of alarms (total count) in the office or the percentage of alarms relative to the total number of devices in the office. When you click an entry in this column, a *Device Status by Alarm Level View* for the office is displayed.

Notice on the *All Offices* or *My Offices* listing that the *# / % of Alarms* column and the next three to the right provide background coloring to represent percentage ranges for the values provided. For example, if the total number of alarms equals 20% or more of the total number of devices, the column field will display a red background color. If the number of alarms represents between 10% to 19% of the total number of devices, the background will be orange. A yellow background indicates that the number of alarms in the office is between 5% and 9% of the device total. Any number of disabled devices that represents less than 5% of the device total will display against a white or light gray background.

- **# / % of Disabled Devices**—generates a *Disabled Devices View* for the selected office. The background color coding for the values in this column represent the same percentages as described above. For example, if the number of disabled devices in the office is 15% or more than the total number of devices in the office, a red background color will display.

- **# / % of TDs Not Reading**—clinking on the value listed in this column for the desired office will produce a report named *Device Reading View: Not Reading.* Once again, color coding is provided in this column to represent percentage values for devices which are not reading compared with the total number of devices in the office. See explanations above.

Notice also that the *Last Connection* column (last column in Screen 14) contains importance information and color coding (when necessary)—although none of the data is hyperlinked. This column indicates the last time, in hours, minutes and seconds, that a connection between PressureMAP and the office monitoring system was made. Connections include scheduled PressureMAP calls and monitoring system alerts.

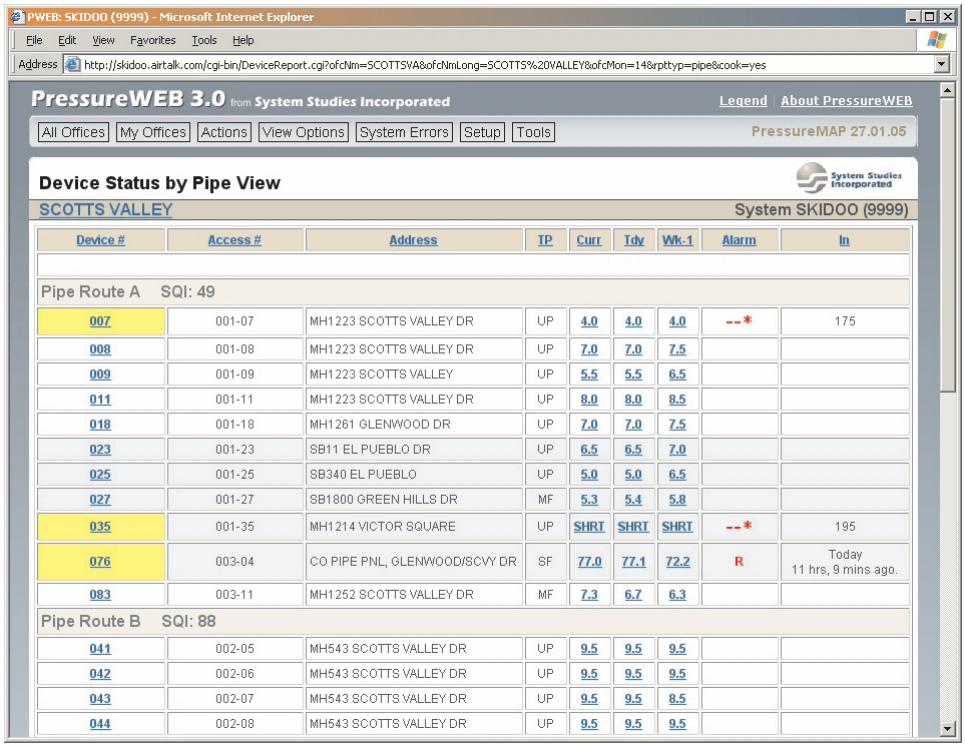
To help quickly identify the amount of time that has transpired since a connection was last made, the data fields in the column include a background color. White (or light gray) indicates that a connection was made sometime within the last 2 hours and 59 minutes (0:00 – 2:59). Yellow represents a longer connection interval: between 3 hours and 3 hours and 59 minutes (3:00 – 3:59). Red identifies an office in which no PressureMAP/monitor connection has occurred for four hours or more (4:00 – #:##).

Device Status View Options

Probably the most helpful information pertaining to the monitoring devices in an office can be found in one of the Device Status Views. These key PressureWEB reports provide device history and alarm data in a concise format, offered in a variety of formatted options.

Procedures

1) Click on an office name to access either the default *Device Status by Pipe View* or the one that you defined as your new default view in the *Setup* pop-up window. This display lists the devices in the office, organized according to your Device Report preference (Screen 15). The Device Status View includes nine columns of important information about the devices. Column headings are abbreviated to correspond to the report format provided in PressureMAP.

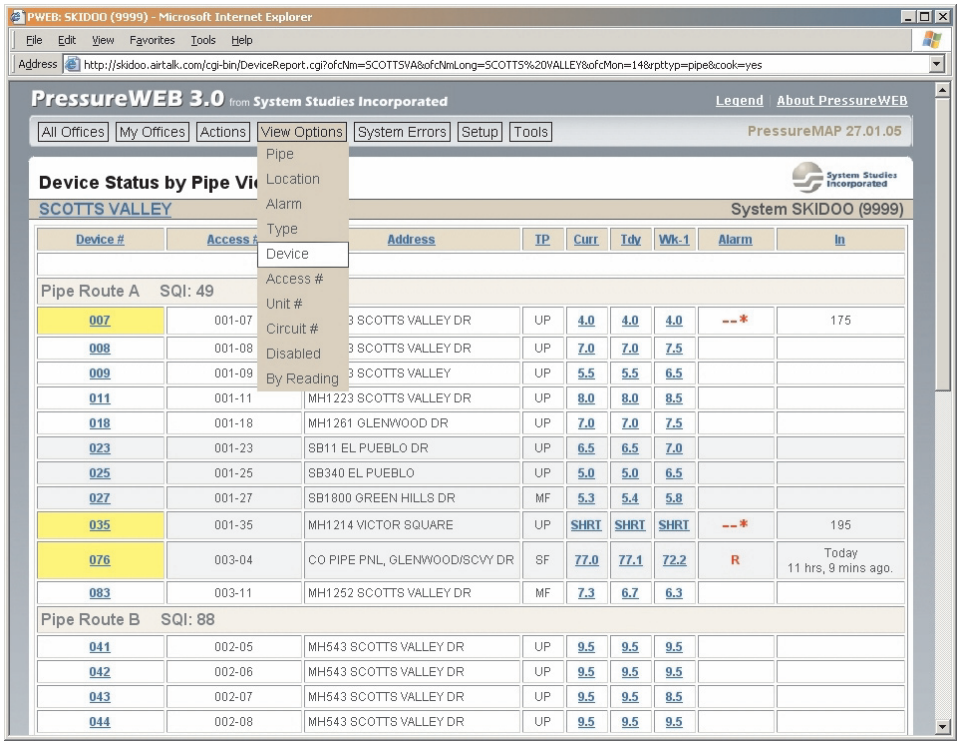


Device #	Access #	Address	TP	Curr	Tdy	Wk-1	Alarm	In
Pipe Route A SQI: 49								
007	001-07	MH1223 SCOTTS VALLEY DR	UP	4.0	4.0	4.0	--*	175
008	001-08	MH1223 SCOTTS VALLEY DR	UP	7.0	7.0	7.5		
009	001-09	MH1223 SCOTTS VALLEY	UP	5.5	5.5	6.5		
011	001-11	MH1223 SCOTTS VALLEY DR	UP	8.0	8.0	8.5		
018	001-18	MH1261 GLENWOOD DR	UP	7.0	7.0	7.5		
023	001-23	SB11 EL PUEBLO DR	UP	6.5	6.5	7.0		
025	001-25	SB340 EL PUEBLO	UP	5.0	5.0	6.5		
027	001-27	SB1800 GREEN HILLS DR	MF	5.3	5.4	5.8		
035	001-35	MH1214 VICTOR SQUARE	UP	SHRT	SHRT	SHRT	--*	195
076	003-04	CO PIPE PNL, GLENWOOD/SCVY DR	SF	77.0	77.1	72.2	R	Today 11 hrs, 9 mins ago.
083	003-11	MH1252 SCOTTS VALLEY DR	MF	7.3	6.7	6.3		
Pipe Route B SQI: 88								
041	002-05	MH543 SCOTTS VALLEY DR	UP	9.5	9.5	9.5		
042	002-06	MH543 SCOTTS VALLEY DR	UP	9.5	9.5	9.5		
043	002-07	MH543 SCOTTS VALLEY DR	UP	9.5	9.5	8.5		
044	002-08	MH543 SCOTTS VALLEY DR	UP	9.5	9.5	9.5		

Screen 15: Device Status by Pipe View

Notice that these column headings are underlined, indicating that they are linked to additional information—in this case, definitions. Clicking on any of the links produces a pop-up window containing a description of the type of information contained in that column.

2) To access other types of device status views, simply click on the *View Options* link located in the navigation bar near the top of the browser. A list of ten view option links is provided, as shown in Screen 16.

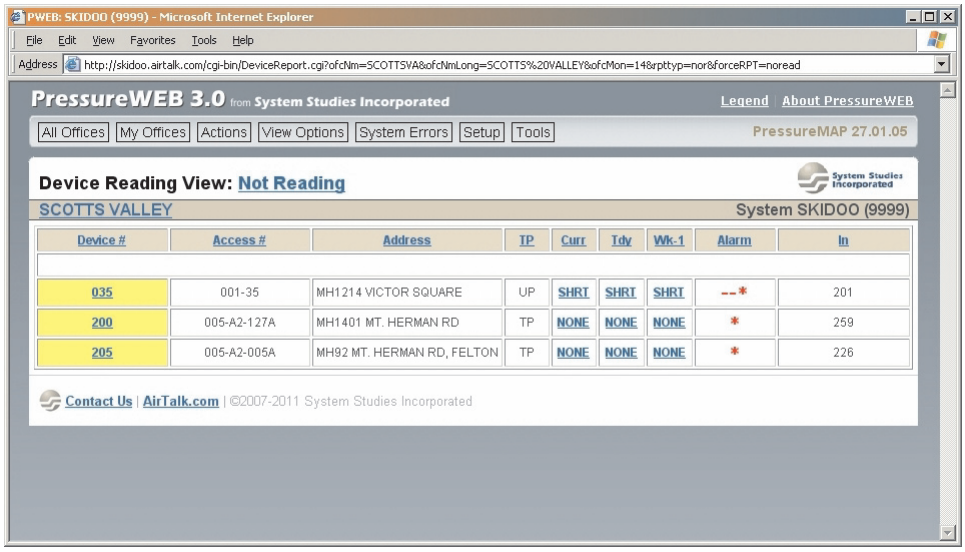


Screen 16: Device Status View Option Links

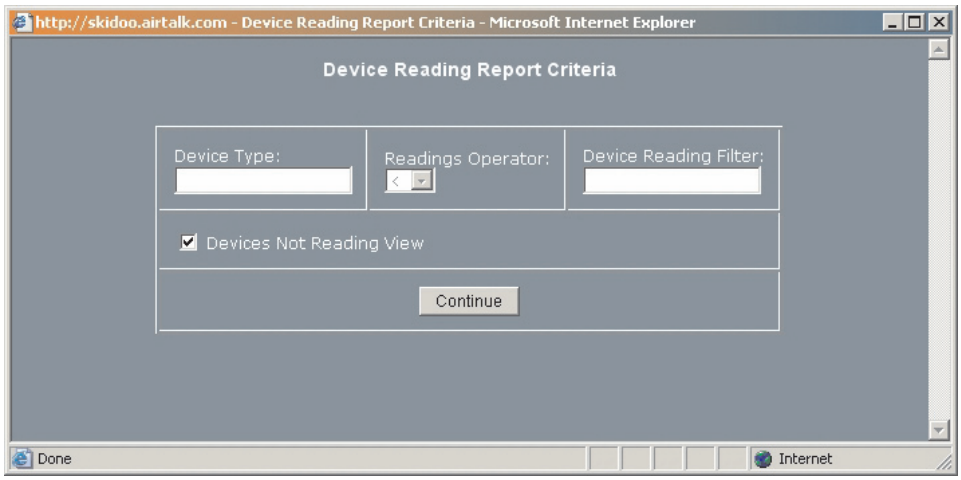
3) Click the desired view option, and a new Device Status View will display. (Please note, however, that the view by *Circuit #* pertains only to Chatlos offices.) The information presented on the Device Status View will be organized by the type of view selected.

Screen 17, for example, shows a *Devices Not Reading View*. This displayed output was initiated by clicking on the *By Reading* link located on the *View Options* menu. When you click *By Reading* PressureWEB produces a popup window with controls for specifying the type of readings you are interested in viewing (Screen 18). In this case *Devices Not Reading View* was checked.

Note: Another way to access a *Devices Not Reading View* is to click on the entry in the *#/% of TDs Not Reading* column for the desired office in the *All Offices* or *My Offices* display. The report then displays without first having to generate and click the *Devices Not Reading View* checkbox in the Device Reading Report Criteria popup window.

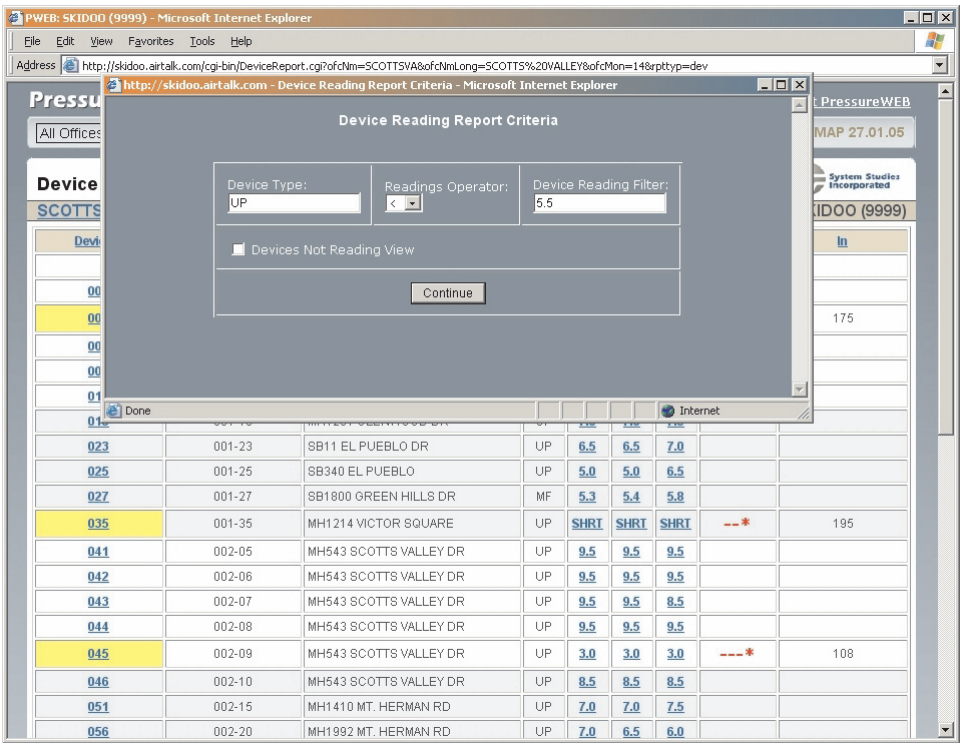


Screen 17: Device Reading View: Not Reading



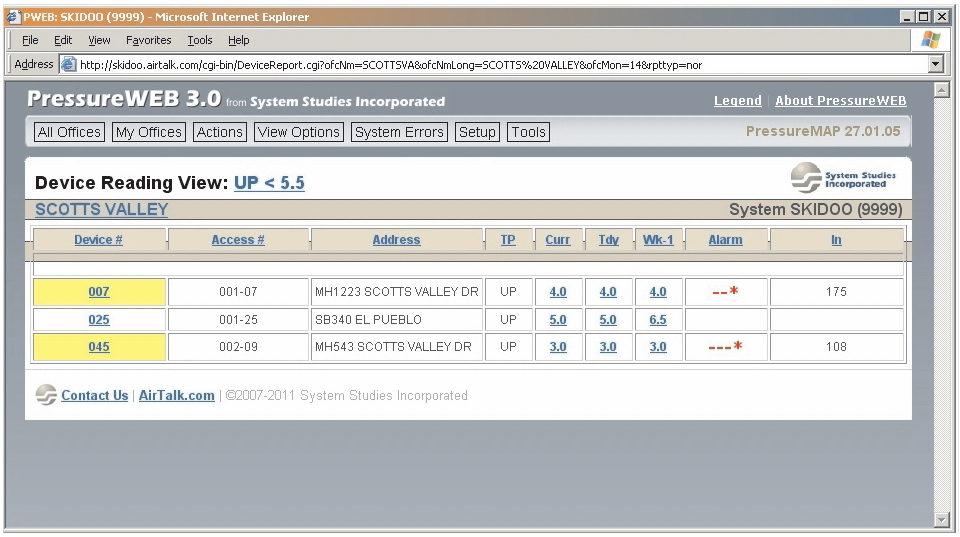
Screen 18: Device Reading Report Criteria

4) To access other types of *By Reading* report displays, enter a device type designation (UP, EP, SF, etc.) in the *Device Type* text box of the Device Reading Report Criteria window (Screen 19). Then select a *Reading Operator* from the drop-down menu (<, <=, >, >=, =) followed by a *Device Reading Filter* entry (5.5 PSI, for example).



Screen 19: Report Criteria Selection Controls

5) When you have completed entering your display options, press the *Continue* button and a report with your selection criteria displays (Screen 20).

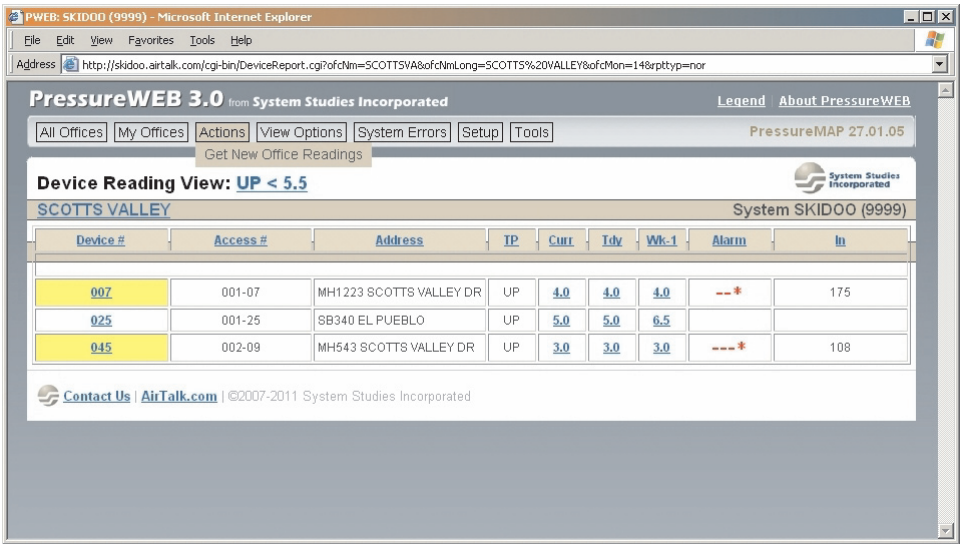


Screen 20: User-specified Device Reading View

Device Status View Actions

Updating Device Readings for an Office

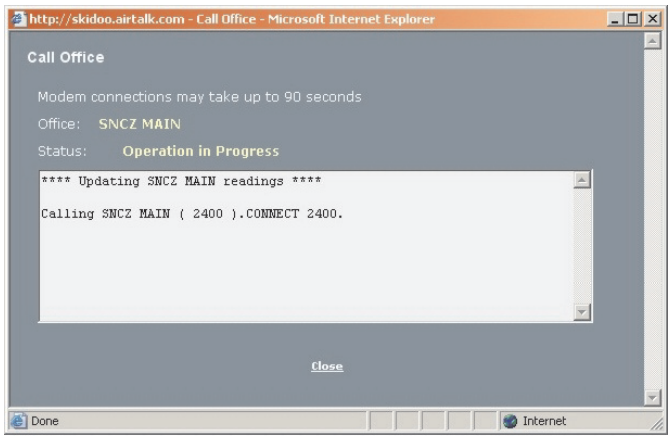
All of the Device Status views provided by PressureWEB include an *Actions* button located on the gray navigation bar at the top of the screen. If you place your mouse pointer on this button, a *Get New Office Readings* link appears (Screen 21). You can use this link, as described below, to update readings for all of the devices in the office. Please note that the *Get New Office Readings* link can also be accessed, in addition to other action items, from the *Specific Device Information* screen. (See explanation beginning on page 19.)



Screen 21: Device Status Actions Link

Procedures

1) Click the *Get New Office Readings* link, and PressureWEB generates a pop-up window (Screen 22) that initiates a call between PressureMAP and the office monitor.



Screen 22: Update Office Readings Pop-up

The call process may take up to five minutes or longer to complete, depending upon whether PressureMAP is set up to communicate with the office via modem or local area network (LAN). A status indicator, located above the white text box displays the realtime status of the transmission.

Once the connection has been made, it can takes several minutes to obtain new readings. During both this process and the initial software-to-hardware connection, the primary PressureWEB displays can be accessed. The *Update Office Readings* pop-up window will remain active in the background.

2) When PressureMAP has finished acquiring and saving the new data, you can close the pop-up window using the link at the bottom of the display.

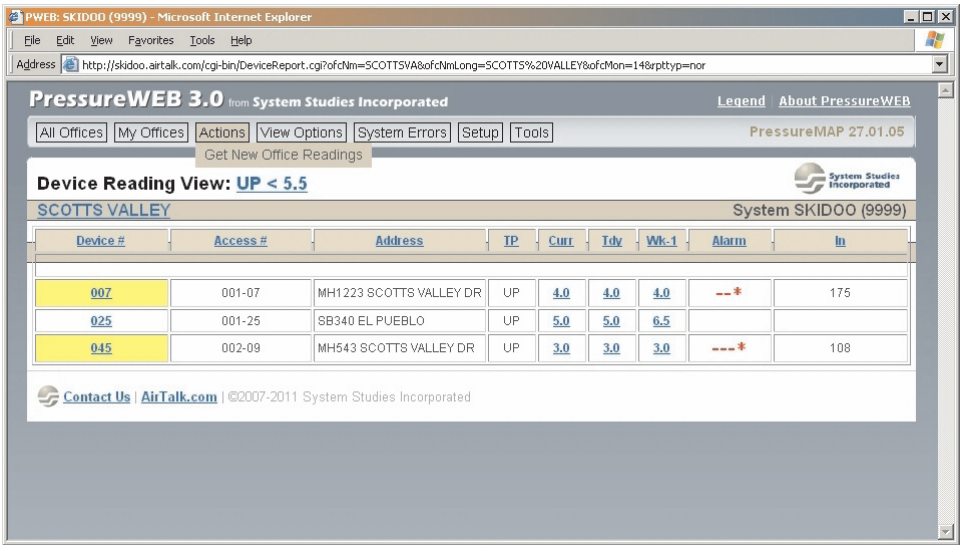
3) Click the refresh or reload button in your web browser, and PressureWEB will now display new device readings.

System Errors Display

Each of PressureWEB's Device Status Views also includes a link, *System Errors*, which produces a listing of the Office 0 System Alarms that may pertain to the office. System Alarms are those which identify problems with the PressureMAP system or with the communications between the PressureMAP system and the other components of the monitoring system.

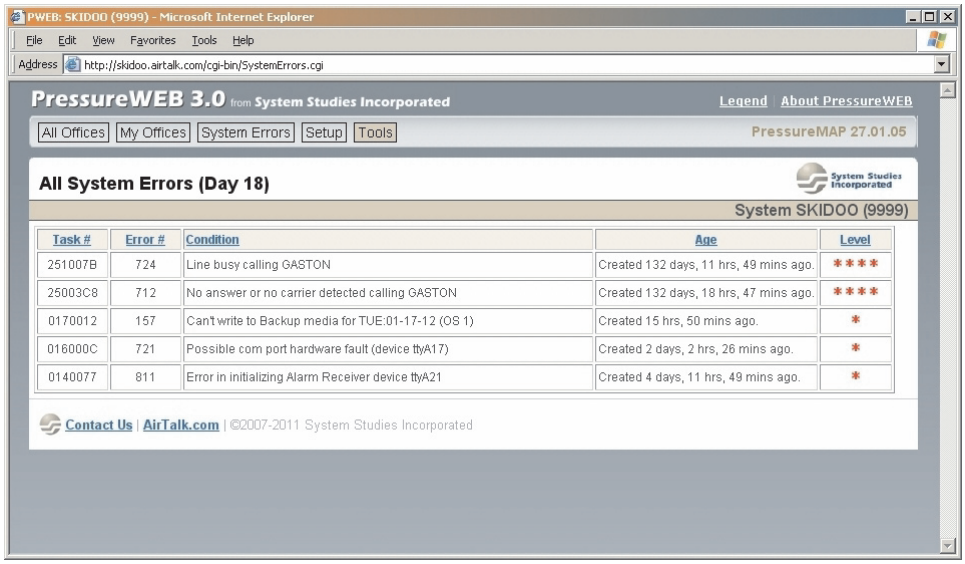
Procedures

1) Highlight and click the *System Errors* link at the top of the screen. If there are any communications or system errors that pertain to the specific office, they will be displayed in output similar to what is shown in Screen 23 below.



Screen 23: Office-Specific System Errors

Notice that the System Errors information provided on this screen pertains specifically to the selected office. If you were to click on *System Errors* while viewing an All Offices or My Offices display, PressureWEB would provide a listing of all of the Office 0 errors on the PressureMAP system (Screen 24).



Screen 24: System-wide System Errors

2) When you are finished viewing the System Errors display, you can navigate to any of the other PressureWEB displays by clicking the appropriate link. To return to one of the System Status Views for a particular office, you will need to click on *My Offices* or *All Offices*, and select the desired office.

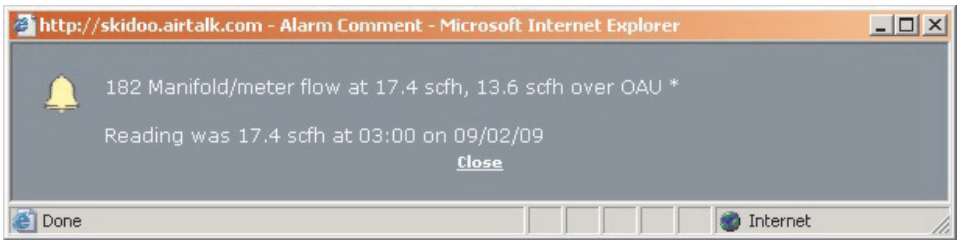
Alarm and Dispatch Condition Display

Notice in the *Alarm* column of the various Device Status views that all starred alarms and "R" routine conditions are displayed in red. Even though they are not underlined, they do provide specific alarm information when you click them.

Procedures

1) With a Device Status view displayed in the browser, click on the desired entry in the *Alarm* column. When you do, a pop-up window is displayed in the center of the screen. It contains an alarm (bell) icon and a brief description of the problem causing the alarm (Screen 25). Red colored icons display for 4-Star Alarms (and 3-Stars, if 3-Star alarming is enabled); yellow icons represent Priority Dispatches.

2) Click the *Close* link in the pop-up window to remove the alarm condition display.



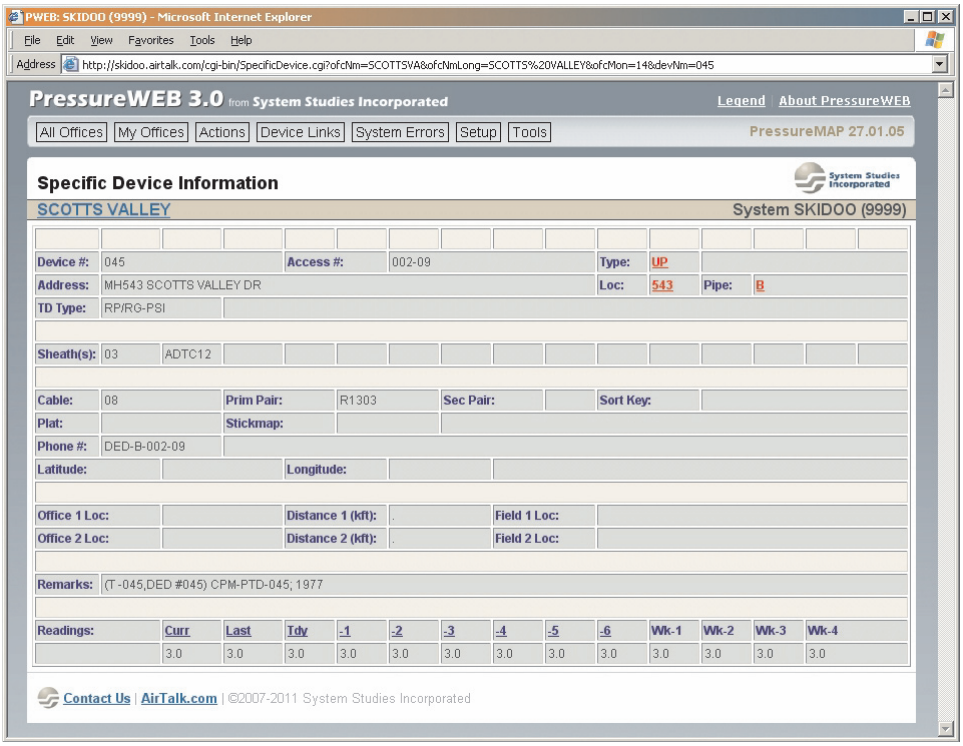
Screen 25: Alarm Condition Summary Window

Specific Device Information

One of the most important screens provided by PressureWEB is *Specific Device Information*. This screen provides hyperlinks to a variety of important information, particularly if the selected office is being monitored by a 289H LSS or 289H-M LSS monitor.

Procedure

1) To obtain Specific Device Information for any of the devices listed on the Device Status View display, click on the desired device number located in the *Device #* column. A display similar to the one shown in Screen 26 appears. As you can see below, there is extensive information displayed in the device record table.



Screen 26: Specific Device Information Display

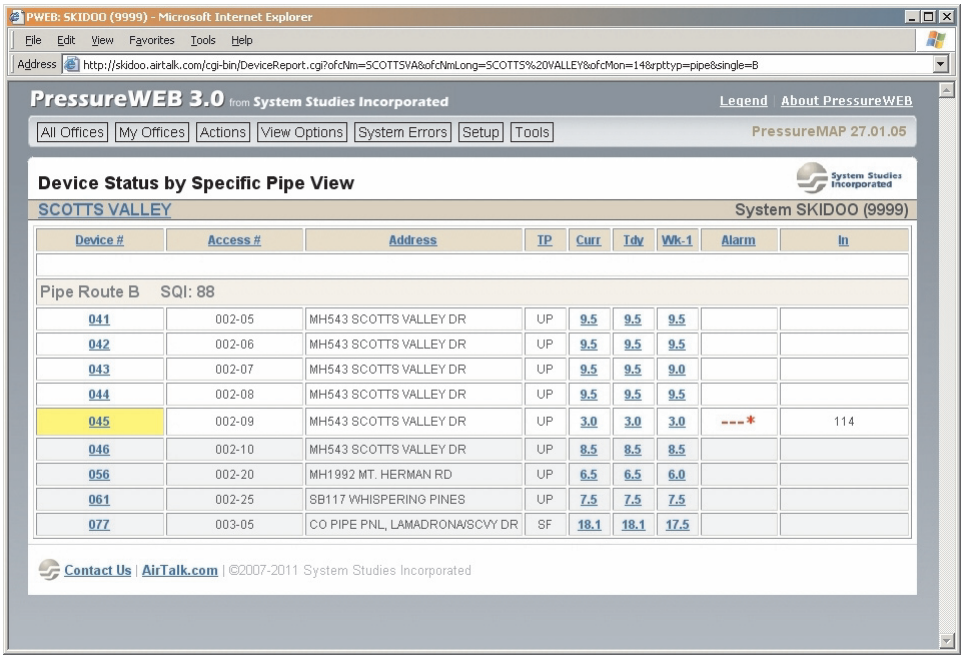
Reading Updates

One of the most useful features, and one that applies to all office monitor types, is the reading information contained in the bottom two rows. Not only is a device reading provided for the current day, the individual days that comprise the past week, and weekly averages for the past month, more specific information is provided. If you place your mouse pointer over the headings for the daily readings (*Curr*, *Last*, *Tdy*, *-1*, *-2*, etc.), PressureWEB will display specific data about when the reading was taken. For example, place the pointer on the *Last* column heading, and PressureWEB will provide accurate data similar in format and detail to the following:

This reading taken 1 hour, 55 minutes ago

Some of the other useful information that is available from red-colored hyperlinks on the *Specific Device Information* screen are Device Status reports for all devices of the same *Type* designation (for example, all MF devices, all UP devices, etc.). To access this type of Device Status View, simply click on the entry opposite the *Type* field (for example, "UP" in Screen 25 above). Similar information is available for all devices at the same *Location Code*, *Pipe*, *Circuit #* (if the office is being monitored by Chatlos) etc.

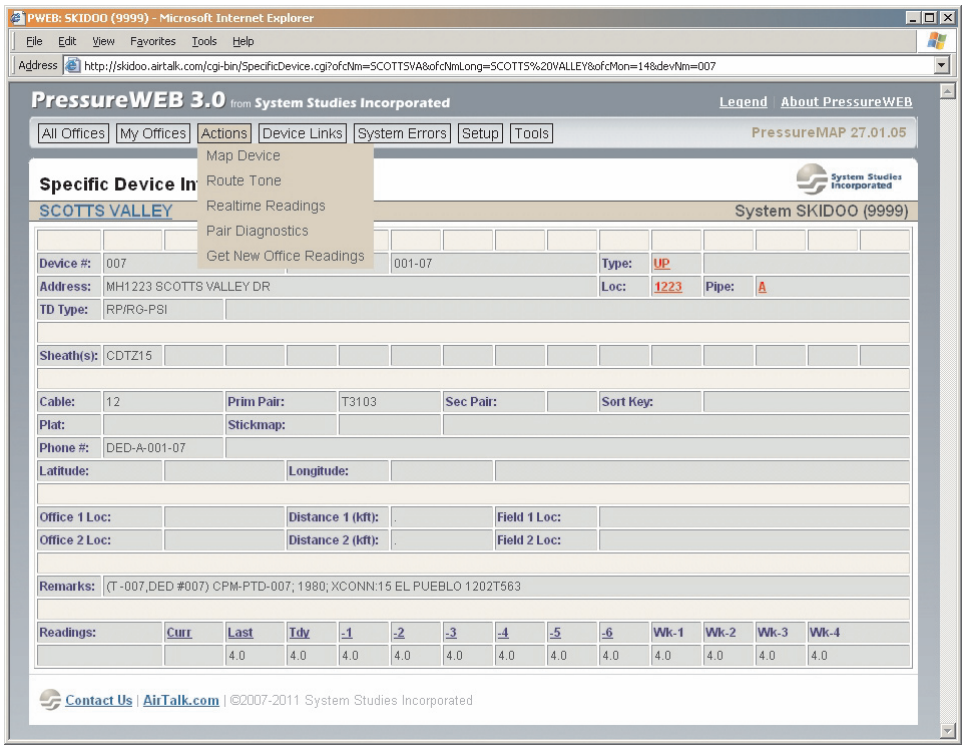
Please note that these Device Status Views are specific to the selected device. For example, the view generated by clicking on the *Pipe* designation ("B" in Screen 25) is a *Device Status by Specific Pipe View* (Screen 27). This report provides a listing of all of the devices on the designated pipe. It also displays the SQI (System Quality Index) for the specific route. This Device Status report differs from the *Device Status by Pipe View* (shown in Screen 15), which lists the devices associated with each designated pipe in the office.



Screen 27: Device Status by Specific Pipe View

Action Items

Perhaps the most powerful information available to PressureWEB users can be found by placing the mouse pointer on the *Actions* button located on the navigation bar at the top of the Specific Device Information Display (Screen 26).



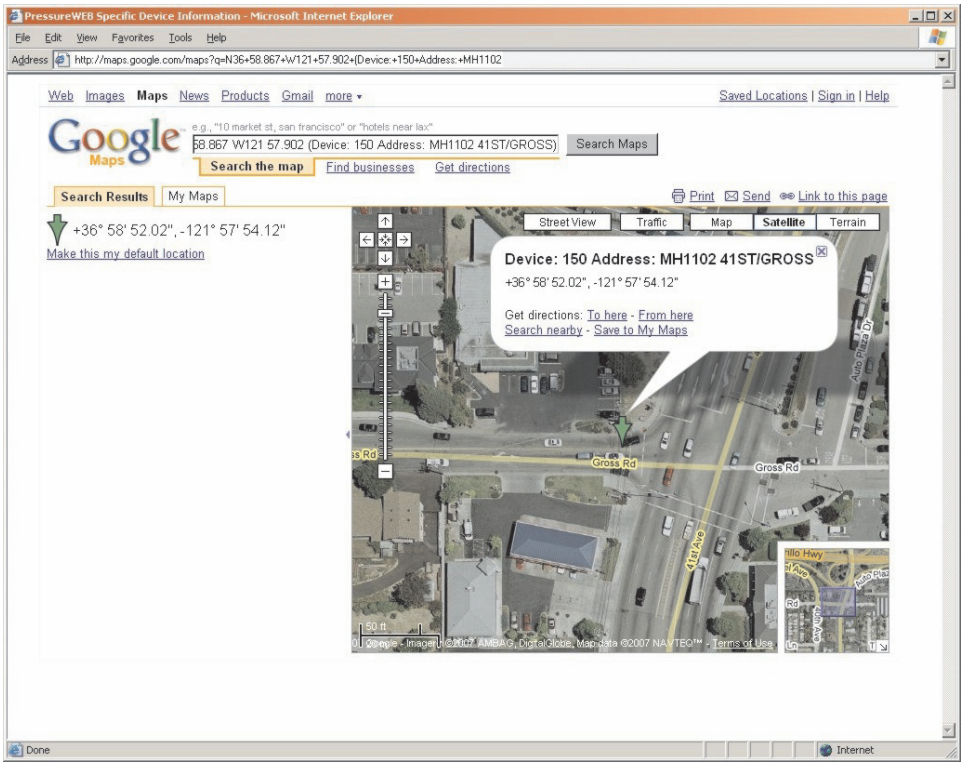
Screen 28: Action Selections

When accessed from the Specific Device Information Screen, this navigation tool provides the following links:

- MAP Device
- Route Tone
- Realtime Readings
- Pair Diagnostics
- Get New Office Readings

Google Map

MAP Device — If your PressureMAP database includes latitude/longitude data for the devices in your office(s), you can click on the *Map Device* link located in the *Actions* menu. This function generates a separate browser window that includes a Google Map of the device's location (Screen 29).



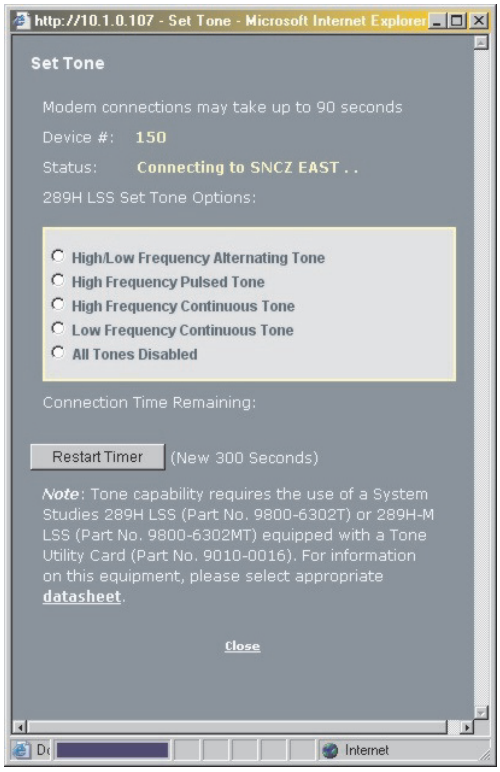
Screen 29: Google Map of Device Location

This simple mapping utility helps management and technicians locate devices for troubleshooting and or leak locating. The zoom controls are especially useful for achieving the level of detail desired. Map display options make it possible to select from among five map views or a combination of views.

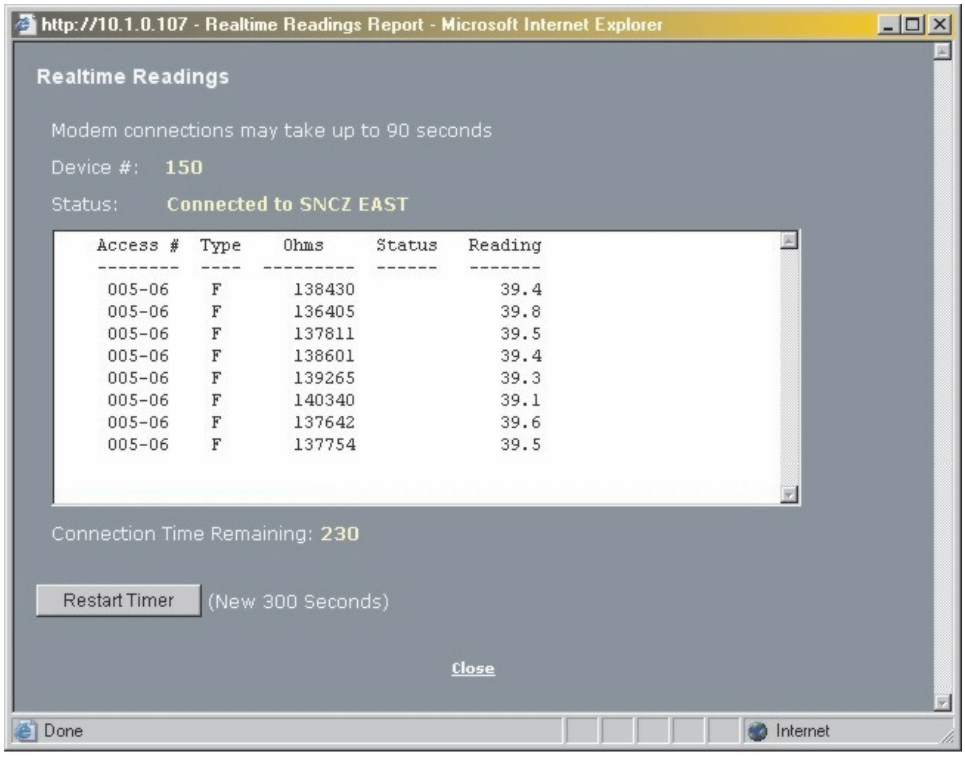
Special Feature for 289H-Monitored Offices

Route Tone — The 289H and 289H-M LSS monitors provide the ability to place both a pseudo-data tone and a locator tone on monitored device pairs. The locator tone is especially valuable when installing and testing monitoring devices in the field. From PressureWEB you can place a locator tone on the selected device pair when you click the *Route Tone* link from the *Actions* menu. PressureWEB produces a pop-up window that shows the connection status and enables you to select from among four tone frequencies (Screen 30). Once connected, the 289H generates the selected frequency until the Route Tone function times out (after five minutes) or until you restart the timer.

Realtime Readings — Another 289H/H-M-specific function available from PressureWEB's *Actions* menu is *Realtime Readings*. When you click this link, PressureWEB displays a pop-up window similar to the one shown in Screen 31. As soon as the window appears, PressureWEB initiates a connection with PressureMAP which, in turn, calls the 289H or 289H-M monitor and collects realtime data for the selected device. Readings are provided continually for a period of five minutes, or until you chose to restart the timer or close the window.

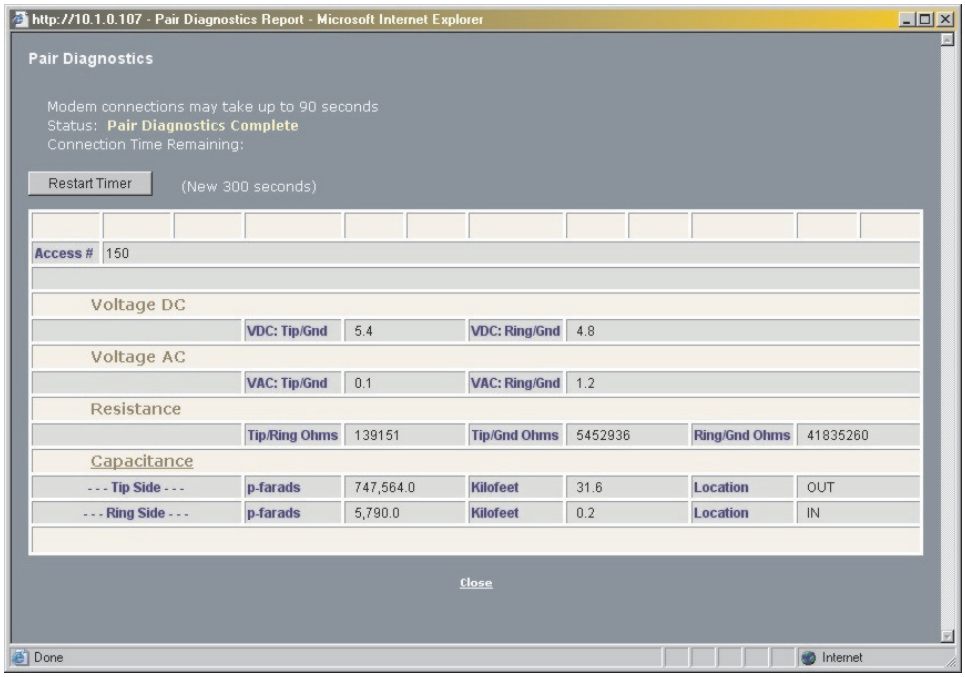


Screen 30: Set Tone Window



Screen 31: Realtime Readings Window

Pair Diagnostics — This *Actions* menu generates another window (shown below) that offers four realtime pair diagnostic tests. These include *Voltage DC*, *Voltage AC*, *Resistance* and *Capacitance*. The output of each of these device pair readings is displayed in the table provided.



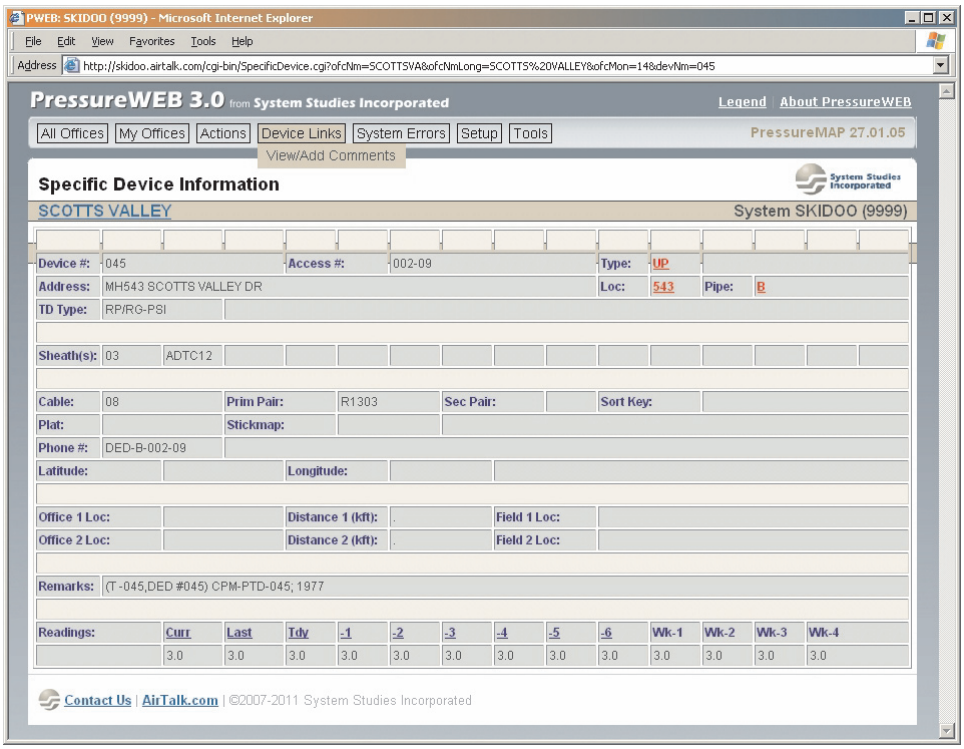
Screen 32: Pair Diagnostics Window

Since most of the output categories are self explanatory, no definitions are provided—with the exception of *Capacitance*. Simply click this link to generate information describing capacitance output.

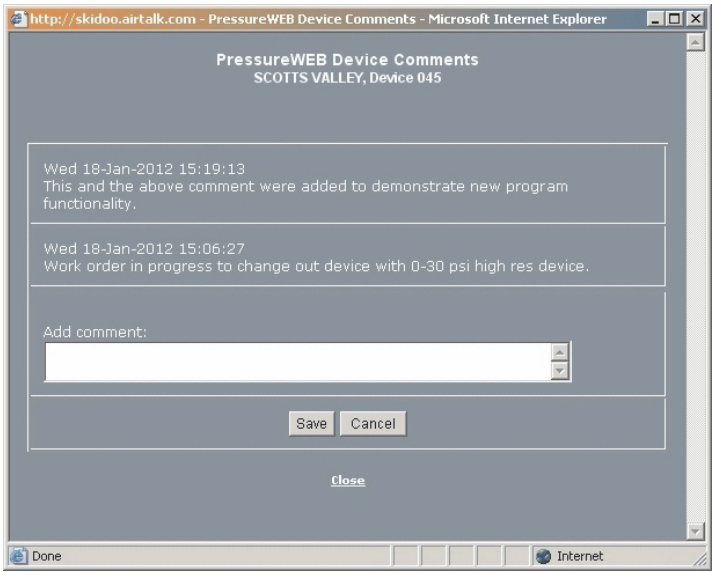
Get New Office Readings — As explained previously in the section describing Device Status Views, it is possible to update all of the readings in an office. From the *Actions* menu, highlight and click the ***Get New Office Readings*** link. This produces an *Updating Office Readings* window (Screen 22). The content of this window indicates the status of the function and displays data in PressureMAP text format to indicate that the office has been called and data acquired and saved. Please note that the *Get New Office Readings* link can also be accessed from any of the Device Status views via the *Actions* button.

Device Links

New in PressureWEB 3.0 is a navigation bar link on the Specific Device Information Screen designated as *Device Links* (Screen 33). When you click this link and the corresponding *View/Add Comments* link, PressureWEB generates a pop-up window where you can enter a new comment or view previous ones (Screen 34).



Screen 33: Device Links

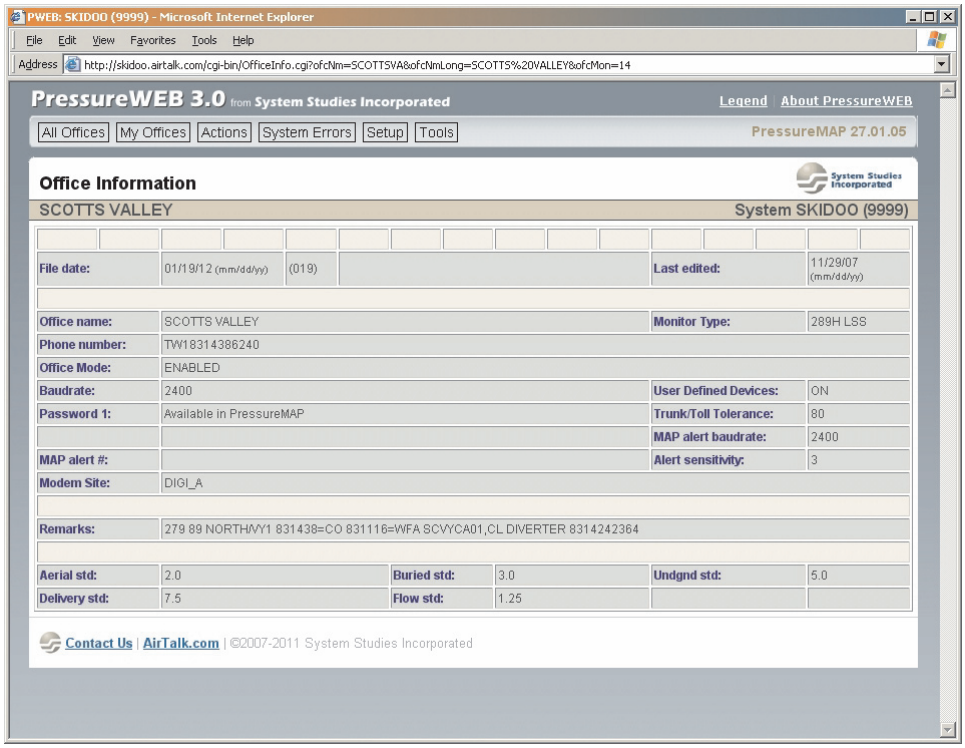


Screen 34: Device Comments Window

A total of eight records will be retained in the Device Comments screen. These comments, added either in Pressure or in PressureWEB, provide an ongoing history of relevant information about the specific device. After eight comments have been recorded, each new one added bumps the oldest one off of the list. Comments can consist of two line of 62 characters each.

Office Information

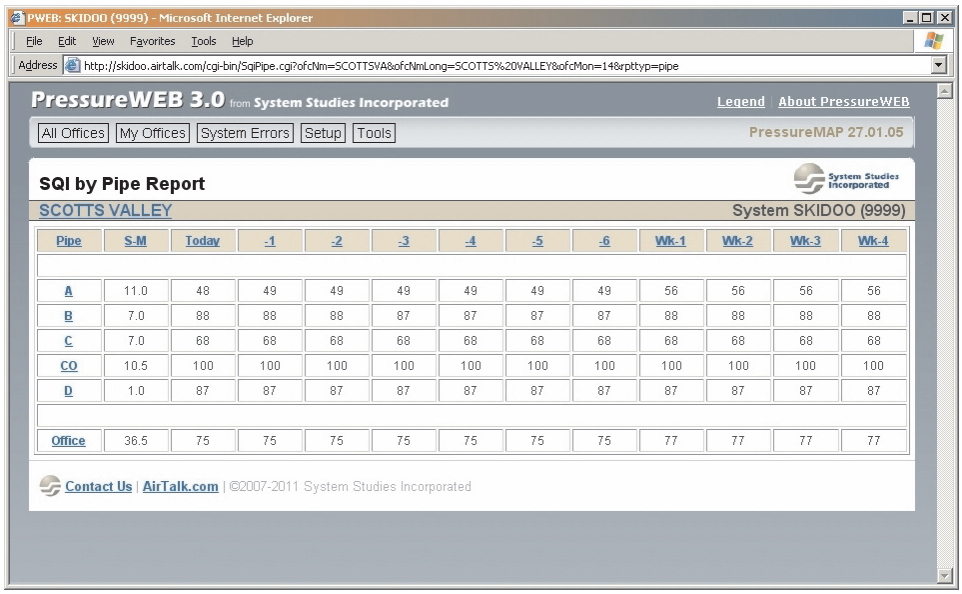
Another important report provided by PressureWEB is the *Office Information* display. This information is available only after you have accessed one of the reports for a selected office (e.g. *Specific Device Information*, *Device Status by Pipe*, etc.). From one of these screens, click the underlined office name located in the tan-colored band below the report title to display the *Office Information* (Screen 35). This valuable report provides all the pertinent information required by PressureWEB for your office.



Screen 35: Office Information Display

SQI Report

When you launch your browser and access the *My Offices* display (or *All Offices*), you can click on the System Quality Index (SQI) value for a desired office to generate the *SQI Report* (Screen 36). As you can see in the example below, SQIs are provided for each of the pipe routes in the office, plus a weighted total for the entire office. What's more, index histories are provided for the preceding five weeks.

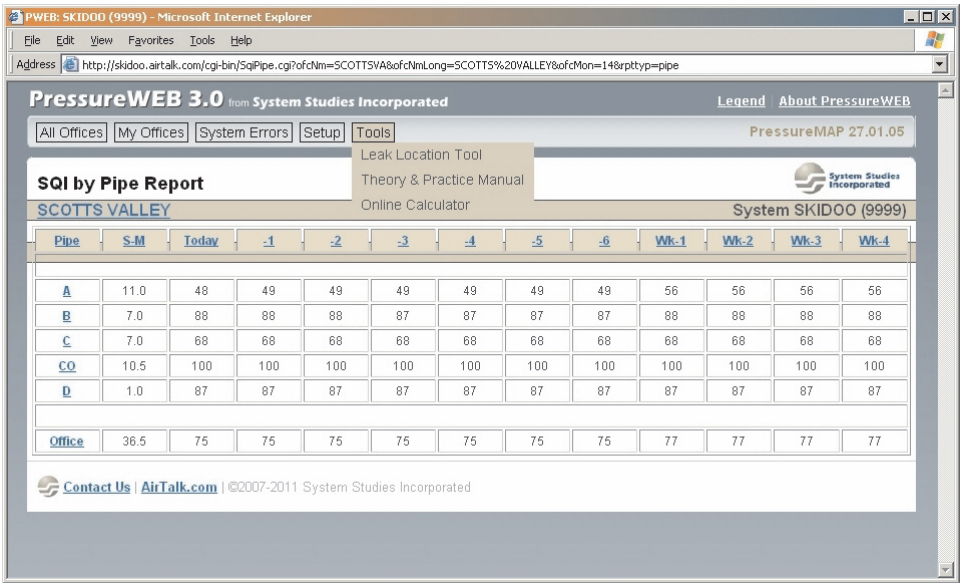


Pipe	S-M	Today	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
A	11.0	48	49	49	49	49	49	49	56	56	56	56
B	7.0	88	88	88	87	87	87	87	88	88	88	88
C	7.0	68	68	68	68	68	68	68	68	68	68	68
CO	10.5	100	100	100	100	100	100	100	100	100	100	100
D	1.0	87	87	87	87	87	87	87	87	87	87	87
Office	36.5	75	75	75	75	75	75	75	77	77	77	77

Screen 36: SQI Report

Tools Access

The preceding screen samples and descriptions represent many of the key reports provided by PressureWEB. In addition to these, there are three options available from the *Tools* link located in the main navigation bar (Screen 37). The first one listed, *Leak Locating Tool*, provides access to a cable pressurization graphing tool.

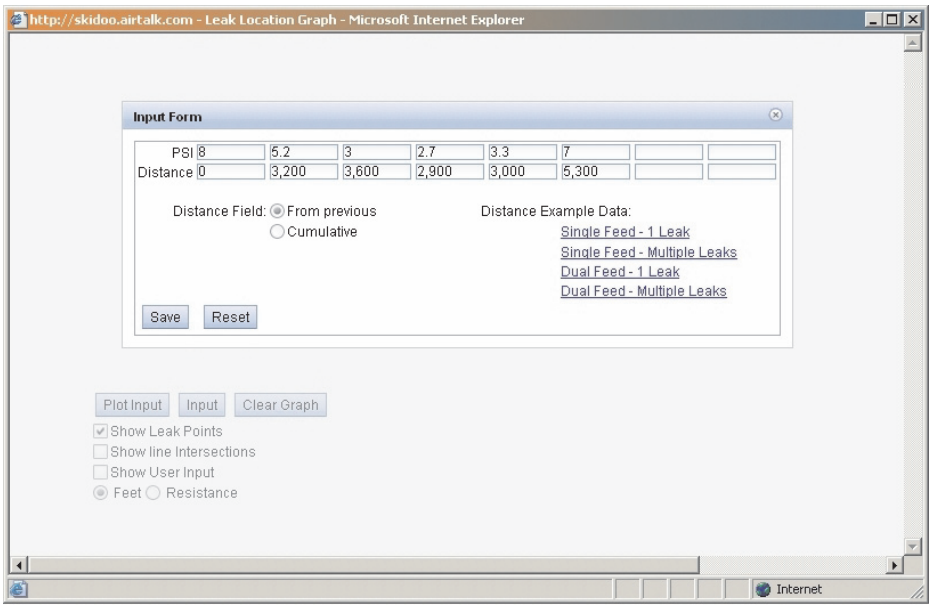


Pipe	S-M	Today	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
A	11.0	48	49	49	49	49	49	49	56	56	56	56
B	7.0	88	88	88	87	87	87	87	88	88	88	88
C	7.0	68	68	68	68	68	68	68	68	68	68	68
CO	10.5	100	100	100	100	100	100	100	100	100	100	100
D	1.0	87	87	87	87	87	87	87	87	87	87	87
Office	36.5	75	75	75	75	75	75	75	77	77	77	77

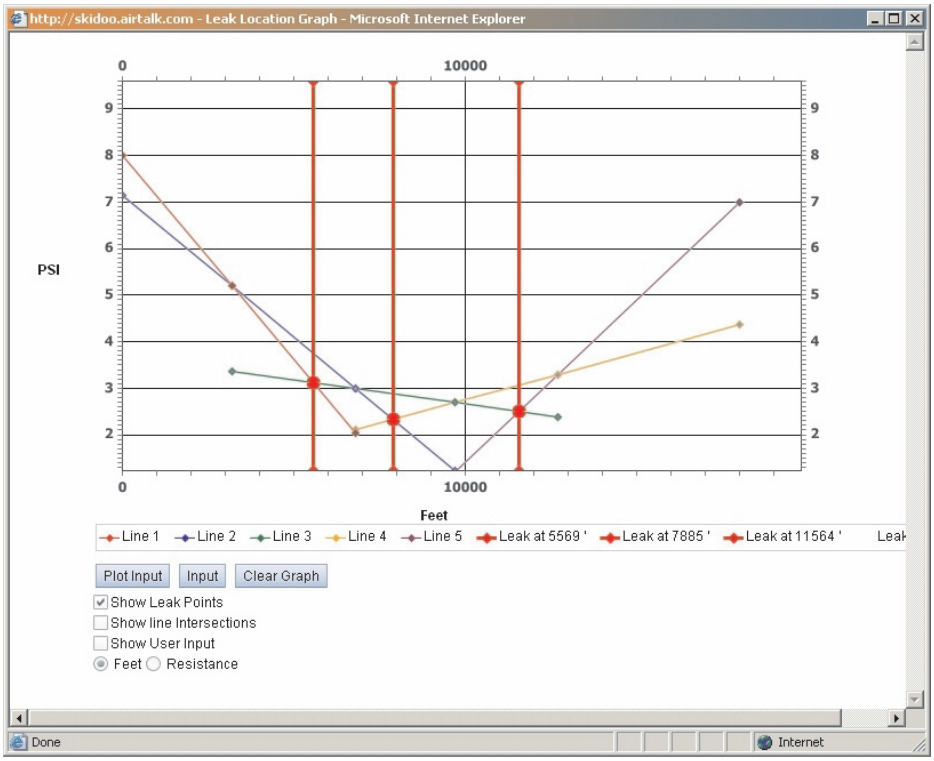
Screen 37: Tools Links

Graphing Tool

Initially, the graphing tool displays only the input buttons and check boxes located in the lower left portion of the screen. To generate the Input Form shown in Screen 38, simply click on the middle (*Input*) button and add your pressure readings and distance measurements. Before you can plot the graph, you must press the *Save* button. Your projected leak graph will then be displayed, similar to the sample graph shown below (Screen 39).



Screen 38: Graph Input Form

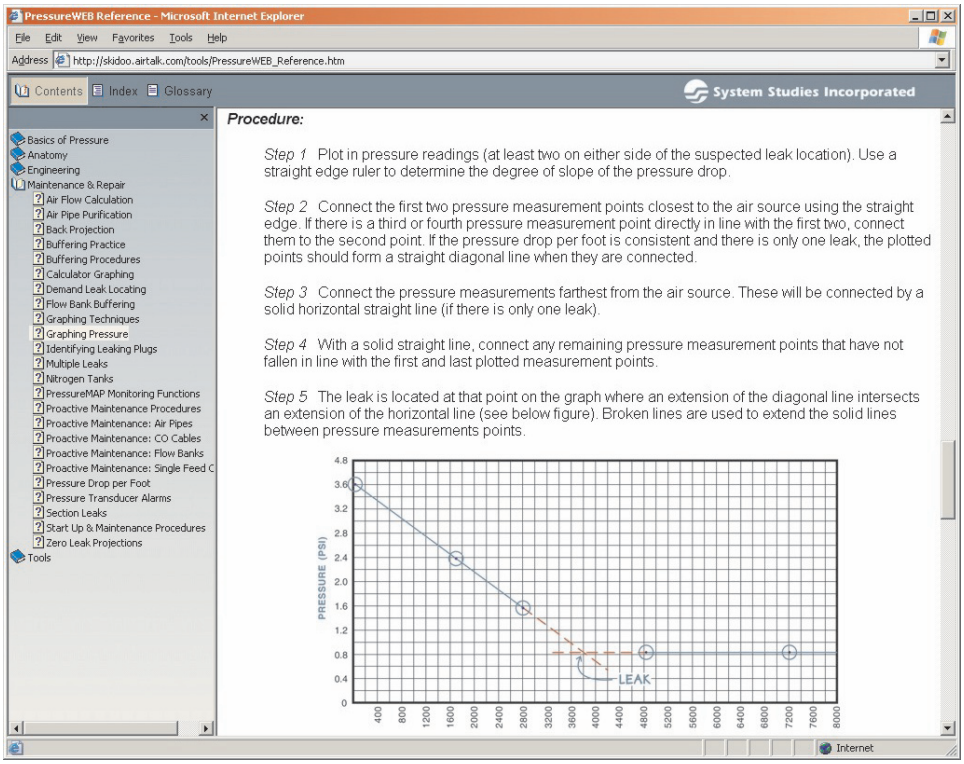


Screen 39: Plotted Leak Result

Theory & Practice Reference Guide

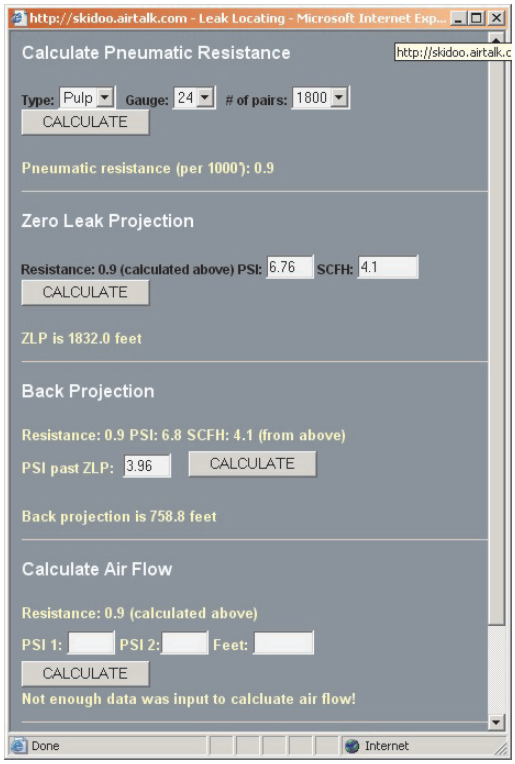
The second item on the Tools menu provides direct access to the System Studies *Cable Pressurization Theory & Practice* book. When you click the *Theory & Practice Manual* link, a separate browser window opens to display an html version of the original 300-page reference source (Screen 40). This reference material provides key information to assist you in the engineering, management and maintenance of a cable pressurization system.

Calculator Tool



Screen 40: Theory & Practice Reference Information

The final *Tools* option generates a calculator which provides a quick way to determine the pneumatic resistance of a cable and calculate Zero Leak Projections, Back Projections and Air Flow (Screen 41). Once you calculate a cable's pneumatic resistance, the value is automatically inserted into the other formulas to streamline the calculation process.



Screen 41: Calculator Tool

Summary

While PressureWEB does not provide all of the information that is available from PressureMAP, it does provide the most useful information. And it makes this information easy to find and quickly accessible with a click of the mouse. We suggest that you take the time to click the available links to gain a better understanding of how the application works and what type of information is provided.

If you have any questions about PressureWEB, the information in this document, or future development plans, please give us a call at one of the numbers below. If necessary, we can even assist you with the setup process—although we think you will find it relatively simple and straightforward.