

PressureWEB 3.2 Capabilities Overview

This document identifies the key PressureMAP™ information that is available for viewing through PressureWEB™, inclusive of Version 3.2. The various screen displays and reports described in the following pages can be generated by clicking on hyperlinks located either on PressureWEB’s silver-colored navigation bar, located near the top of the screen, or within the various on-screen displays.

Below is a list of contents for the various sub-sections provided:

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Initial PressureWEB Display

The first time you log onto the program, the **All Offices** listing displays (Example 1). As the name implies, All Offices includes a numerically-sorted display of each of the offices in the PressureMAP system. After you have set up your system, using the Display Preferences explained in the next section, you will be able to select just the individual offices that are of interest to you (a *My Offices* list). The All Offices and My Offices displays include the following content:

- Links to the Device Status Views of each office (click on Office Name)
- Individual office System Quality Index (SQI) value and links to the SQI reports for each office
- Listing of the number (#) of devices in each office
- Listing of the number (#) or percentage (%) of alarms in each office
- Listing of the number (#) or percentage (%) of disabled devices in each office
- Listing of the number (#) or percentage (%) of transducers that are not reading
- Amount of time that has transpired since the last successful PressureMAP/office connection, plus notification of the type of connection (scheduled PressureMAP *Call* or *Alert* from monitor)
- The system name and/or number (located below the company logo).

No.	Name	SQI	Remarks	# of Devices	# of Alarms (4 star)	# of Disabled Devices	# of TDs Not Reading	Last Connection
1	BEN LOMAND	99		4	0	0	0	Call: 20 mins ago.
2	BOULDER CREEK	84		12	0	1	1	Call: 20 mins ago.
3	FELTON	79		18	0	0	0	Call: 20 mins ago.
4	SCOTTS VALLEY	70	279 89 NORTHVY1 831438=CO 831116=WFA SCVYCA01.CL DIVERTER 8314242364	36	0	0	3	Call: 19 mins ago.
5	SNCZ EAST	74		114	0	1	3	Call: 15 mins ago.
6	SNCZ MAIN	75		125	0	6	5	Call: 11 mins ago.
7	SAN CLEMENTE	68		105	2	3	12	Call: 20 mins ago.
8	MEGA	No SQI		2	0	0	0	N/A
9	(366)	No SQI		0	0	0	0	Office Disabled
10	(WINDSTREAM)	No SQI		0	0	0	0	Office Disabled
11	(428)	No SQI		0	0	0	0	Office Disabled
12	(427)	No SQI		0	0	0	0	Office Disabled
13	(SANTIAGO)	No SQI		22	0	0	21	Office Disabled
14	(421)	No SQI		0	0	0	0	Office Disabled

EXAMPLE 1: ALL OFFICES BY NUMBER

Note: By default, offices are listed in ascending order according to the number assigned during data entry. The *View Options* menu located on the gray navigation bar provides other sorting options. For example, you can choose to display offices by Alarm Priority, by Alarm Time, by Name, by Alarm Count, and by SQI. The View Options menu also includes a link to the Office Dashboard, which is described on page 19.

If you wish to change the default sorting method for your offices, use the *Office List Sort Preferences* described on page 5.

PressureWEB Display Preferences

You will notice that there's a *My Offices* link on PressureWEB's navigation bar. Initially, the My Offices display is identical to the All Offices display. But when you click the navigation bar's *Setup* link, you can define your own list of preferred offices using the PressureWEB Preferences utility popup window (Example 2).

My Office Selections — PressureWEB enables you to define and name multiple My Office listings of your choice. Simply type the name of the desired list in the My Office List Selection text box (upper left corner), click the *Add* button, then check the boxes opposite the individual office names that you would like to include in the list. The final step is to confirm your selection by clicking the *Save* button at the bottom of the popup window. Repeat this simple procedure for any additional *My Offices* lists that you'd like to add.

PressureWEB Preferences

Help

My Office List Selection:
My Offices
Add Delete
Current Setting: My Offices

Select offices for: My Offices
Select All Unselect All

- 1. BEN LOMAND
- 2. BOULDER CREEK
- 3. FELTON
- 4. SCOTTS VALLEY
- 5. SNCZ EAST
- 6. SNCZ MAIN
- 7. SAN CLEMENTE
- 8. MEGA
- 9. 366
- 10. WINDSTREAM
- 11. 428
- 12. 427
- 13. SANTIAGO
- 14. 421

Language Preference: English

Office List Sort Preference: Office Number

Office Last Connect Preference: Show latest (Call or Alert)

Office List Display Preference: View Counts

Alarm Display Preference: 4 star

Device Report Preference: View by Pipe

Device Listing Expanded View Preference:
 Expanded View

Auto Refresh Preference:
 Auto Refresh: 5 Minutes

Floating Headers Preference:
 Floating Headers

Save Cancel

Close

EXAMPLE 2: PRESSUREWEB PREFERENCES

Language Selection — The last few releases of PressureWEB include a *Language Preference* selection drop-down menu. Currently, two language display preferences are available: English (the default) and Spanish (Español). If you were to select *Español* as your language choice, the information displayed on the PressureWEB Preferences popup screen would change immediately to Spanish (as shown in Example 3).

Note: In this case you will need to save your language preference selection by clicking the *Aceptar* button in order for PressureWEB's other screen information to be displayed in Spanish (see Example 4).

PressureWEB Preferencias

Ayuda

Mi seleccion de lista de Mis Centrales:
 Ricardo Perez ▼
 Añadir Borrar
 Configuración actual: **Ricardo Perez**

Preferencia de Language: Español ▼

Preferencia del orden de la lista de los centrales:
 Numero del Central ▼

Cetral conectar preferencia:
 más reciente (llamar o avisar) ▼

Preferencias de visualizacion para la lista del Centrales:
 Ver Cunetas ▼

Preferencia de visualización de alarma:
 4 estrella ▼

Preferencia del informe de dispositivos:
 Ver por Tubo ▼

Preferencia de Listado de dispositivo de vista expandida:
 Vista Expandida

Actualización Automática de Preferencia:
 Actualización Automática: 5 Minutos ▼

Encabezados preferencia flotante:
 Cabezales flotantes

Aceptar Cancelar

Cerrar

EXAMPLE 3: SPANISH LANGUAGE SELECTION

PressureWEB 3.2 from System Studies Incorporated Leyenda Sobre PressureWEB

Todos los Centrales Mis Centrales Problemas Ver las Opciones Informes Configuración Instrumentos **PressureMAP 28.01.D0**

Ricardo Perez Centrales por Numero Sistema SKIDOO (7777)

Número	Nombre	Sistema de Índice de Calidad (SIC)	Comentarios	# de los dispositivos	# de las alarmas (4 estrella)	# de los Dispositivos Discapacitados	# de los TDs cuales no estan leyendo	Ultima Conexion
1	BEN LOMAND	99		4	0	0	0	llamar: 0 dias, 0 horas, 48 minutos hace.
2	BOULDER CREEK	84		12	0	1	1	llamar: 0 dias, 0 horas, 48 minutos hace.
3	FELTON	79		18	0	0	0	llamar: 0 dias, 0 horas, 48 minutos hace.
4	SCOTTS VALLEY	70	279 89 NORTHVY1 831438=CO 831116=WFA SCVYCA01,CL DIVERTER 8314242364	36	0	0	3	llamar: 0 dias, 0 horas, 47 minutos hace.
5	SNCZ EAST	74		114	0	1	3	llamar: 0 dias, 0 horas, 43 minutos hace.
6	SNCZ MAIN	75		125	0	6	5	llamar: 0 dias, 0 horas, 39 minutos hace.
Totales				309	0	8	12	

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EXAMPLE 4: MY OFFICES LISTING IN ESPAÑOL

PressureWEB 3.2 Capabilities Overview

Lists and Reports Preference Settings — Please note also PressureWEB provides several options for controlling how PressureWEB initially displays Office Listings, Device Reports and Alarm Information. Each of these options can be selected using PressureWEB's Display Preferences utility. Here are some of the display controls you will find:

- **Office List Sort Preference.** You can choose to have your *All Offices* and *My Offices* listings sorted by Office Number, Office Name, Office SQI (worst to best), Office Alarm Count, Office Alarm Time, or Alarm Priority (see below).

Example 5: Office List Sort Preference Options

Note: If you choose to sort your office lists via Office Alarm Count or Office Alarm Time, PressureWEB displays an additional column, *Last Alarm Time*, in the offices list. See the example below. You may wish to compare this example with the one on page 2.

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles View Options Reports Setup Tools PressureMAP 28.01.D0

My Offices by Alarm Time System Studies Incorporated

My Offices System SKIDOO (7777)

No.	Name	SQI	Remarks	# of Devices	# of Alarms (4 star)	# of Disabled Devices	# of TDs Not Reading	Last Alarm Time	Last Connection
7	SAN CLEMENTE	68		105	2	3	12	7 hrs, 2 mins ago.	Call: 1 hr, 2 mins ago.
1	BEN LOMAND	99		4	0	0	0	N/A	Call: 1 hr, 2 mins ago.
2	BOULDER CREEK	84		12	0	1	1	N/A	Call: 1 hr, 1 min ago.
3	FELTON	79		18	0	0	0	N/A	Call: 1 hr, 2 mins ago.
4	SCOTT'S VALLEY	70	279 89 NORTHVY1 831438=CO 831116=WFA SCVYCA01,CL DIVERTER 8314242364	36	0	0	3	N/A	Call: 1 hr, 1 min ago.
5	SNCZ EAST	74		114	0	1	3	N/A	Call: 57 mins ago.
6	SNCZ MAIN	75		125	0	6	5	N/A	Call: 53 mins ago.
Totals				414	2	11	24		

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EXAMPLE 6: MY OFFICES LISTING SHOWING LAST ALARM TIME

The latest Office List Sort Preference added to PressureWEB is *By Alarm Priority*. This new display, shown in Example 7, is available for your *All Offices and My Offices* listings. Notice that it includes only six columns: the *Name* of each office, the *Device* number, *Device Type (TP)*, *Current Reading (Curr)*, *Alarm* designation, and *Condition* causing each Alarm Priority.

The current release of PressureWEB 3.2 supplied with PressureMAP Version 28.01.D0, includes only four star (****) alarms in the *By Alarm Priority* listing. The list of alarms is ranked according to severity by the PressureMAP software, with the most critical alarms appearing at the top of the list. For example, the *EP* Priority Alarm in the example is ranked higher than the *MF* alarm because an EP device that is below standard indicates that the majority of the cables on the route have inadequate air pressure protection, not just the cable(s) causing the high flowing manifold.

The screenshot displays the PressureWEB 3.2 interface. At the top, it says "PressureWEB 3.2 from System Studies Incorporated" with links for "Legend" and "About PressureWEB". Below this is a navigation bar with "All Offices", "My Offices", "Troubles", "View Options", "Reports", "Setup", and "Tools". On the right, it indicates "PressureMAP 28.01.D0".

The main section is titled "My Offices by Alarm Priority" and includes a dropdown menu for "My Offices" and "System SKIDOO (7777)". Below this is a table with the following data:

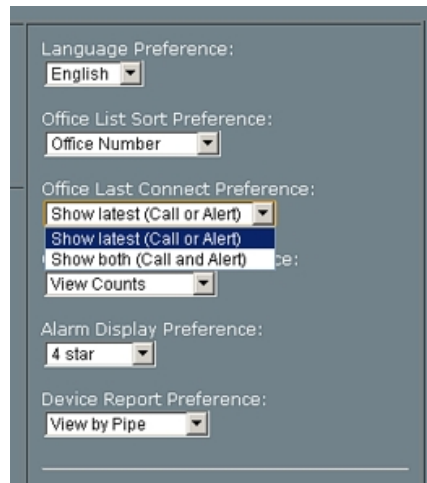
Name	Device	TP	Curr	Alarm	Condition
SN CZ EAST	165	EP	7.0	****	121000E 165 Source/end pipe PTD lost 1.0 psi in < 24 hr **** Reading was 7.0 psi at 06:07 on 05/01/14 VALIDATED
SN CZ MAIN	171	MF	12.5	****	120001C 171 Manifold/meter panel flow gained 3.8 scfh in 24 hr **** Reading was 12.5 scfh at 14:05 on 04/30/14 VALIDATED

At the bottom of the interface, there are links for "Contact Us" and "AirTalk.com", and a copyright notice: "©2007-2014 System Studies Incorporated".

EXAMPLE 7: ALL OFFICES LISTING USING BY ALARM OFFICE LIST SORT PREFERENCE

PressureWEB 3.2 Capabilities Overview

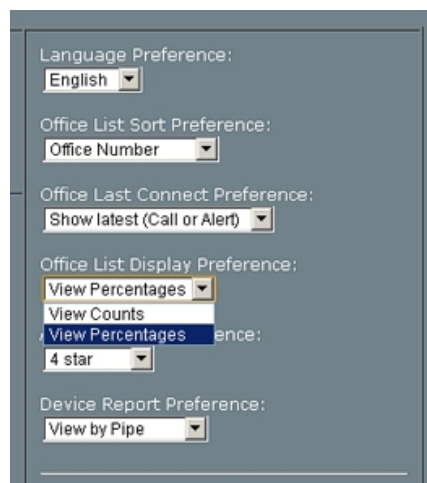
- **Office Last Connect Preference.** PressureWEB Version 3.2 also gives you the ability to select what type of information displays in the *Last Connection* column of the *All Offices* or *My Offices* screens (Example 8). This column lists the length of time, in days, hours and minutes, that a connection between PressureMAP and the office monitoring system was last made. Using the Office Last Connect Preference drop-down menu (example below), you can choose to display either the last Call or Alert that has occurred or both the last Call and the last Alert. The *Last Connection* column will indicate the type of connection made plus the amount of time that has transpired, as shown in the Example 12 on page 9.



The screenshot shows a settings panel with several dropdown menus. The 'Office Last Connect Preference' dropdown is highlighted with a blue selection bar and shows three options: 'Show latest (Call or Alert)', 'Show latest (Call or Alert)', and 'Show both (Call and Alert)'. Other settings include 'Language Preference' set to 'English', 'Office List Sort Preference' set to 'Office Number', 'View Counts' set to 'View Counts', 'Alarm Display Preference' set to '4 star', and 'Device Report Preference' set to 'View by Pipe'.

EXAMPLE 8: OFFICE LAST CONNECT OPTIONS

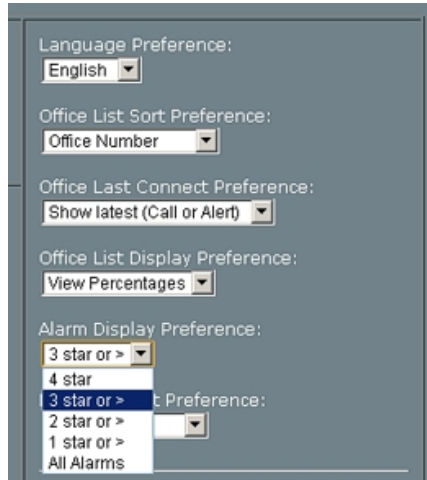
- **Office List Display Preference.** You can have the Alarms, Disabled Devices and TDs Not Reading columns in the *All Offices* and *My Offices* displays set to show percentages or counts (for example, % of Alarms, % of Disabled Devices, % of TDs Not Reading – or – # of Alarms, # of Disabled Devices, # of TDs Not Reading). Choose your selection in the Office List Display Preference drop-down menu (example below).



The screenshot shows the same settings panel as Example 8, but with the 'Office List Display Preference' dropdown highlighted. It shows three options: 'View Percentages', 'View Counts', and 'View Percentages'. The 'View Percentages' option is selected with a blue bar. Other settings are the same as in Example 8.

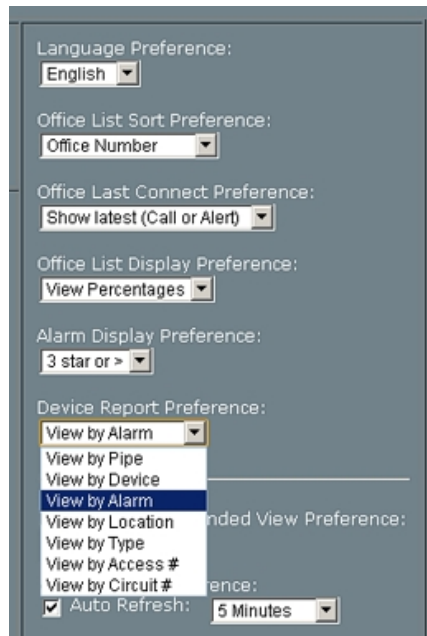
EXAMPLE 9: OFFICE LIST DISPLAY OPTIONS

- Alarm Display Preference.** 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.



EXAMPLE 10: ALARM LEVEL DISPLAY OPTIONS

- Device Report Preference.** With this selection 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-monitored office).



EXAMPLE 11: DEVICE STATUS DISPLAY OPTIONS

- Expanded View Preference.** The first checkbox below the Device Report Preference list allows you to expand the device readings on PressureWEB's Device Status Reports (see Example 21 on page 17). 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

PressureWEB 3.2 Capabilities Overview

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.

- 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, 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.
- Floating Headers Preference.** The final preference setting in the *Setup* popup window makes it possible to keep the column header descriptions for many of PressureWEB's important displays at the top of the browser window. This capability allows you to continually view column header information when scrolling report data that exceeds the height of the browser display. Floating headers are available for the Office list (*All Offices* and *My Offices*), the *Device Status Views*, the *SQL by Pipe* display, and the *System Errors* display.

My Offices Display

When you have made and saved your setup selections, clicking the *My Offices* link will produce a display similar to the one shown below. To summarize, the My Offices listing:

- Provides the same information as the *All Offices* listing, but it includes only the specific offices that you selected in the *Setup* popup window.
- Enables you to select from among several defined office groups, using a drop-down text box below the report name (see Example 12).
- Can be modified anytime to include new offices or delete existing ones.

No.	Name	SQI	Remarks	# of Devices	# of Alarms (4 star)	# of Disabled Devices	# of TDs Not Reading	Last Alarm Time	Last Connection
7	SAN CLEMENTE	68		105	2	3	12	7 hrs, 11 mins ago.	Call: 1 hr, 11 mins ago.
1	BEN LOMAND	99		4	0	0	0	N/A	Call: 1 hr, 11 mins ago.
2	BOULDER CREEK	84		12	0	1	1	N/A	Call: 1 hr, 10 mins ago.
3	FELTON	79		18	0	0	0	N/A	Call: 1 hr, 10 mins ago.
4	SCOTTS VALLEY	70	279 89 NORTHVY1 831438=CO 831116=WFA SCVYCA01,CL DIVERTER 8314242364	36	0	0	3	N/A	Call: 1 hr, 10 mins ago.
5	SNCZ EAST	74		114	0	1	3	N/A	Call: 1 hr, 6 mins ago.
6	SNCZ MAIN	75		125	0	6	5	N/A	Call: 1 hr, 2 mins ago.
Totals				414	2	11	24		

EXAMPLE 12: MY OFFICES DISPLAY

SQL Display

The **SQL by Pipe Display**, displayed by clicking an entry in the *SQL* column, has not changed in appearance and function since the first release of PressureWEB. It includes the following information:

- All of the pipe routes in the office, plus links to individual Pipe SQLs
- Sheath mileage indications for each route
- SQL values for *Today*, each of the six previous days, plus weekly SQL averages for the past four weeks
- Office summary information for each of the report columns (e.g. total sheath mileage for the office, average SQL for the office, etc.)
- In Version 3.2 a *Setup* menu option allows you to even display your All Offices or My Offices ranked by SQL—lowest to highest.

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Setup Tools PressureMAP 28.01.D0

SQL by Pipe Report System Studies Incorporated

SNCZ EAST System SKIDOO (7777)

Pipe	S-M	Today	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
A	9.0	75	76	76	76	74	70	71	71	70	70	70
B	26.0	82	82	82	82	81	81	80	81	81	81	81
C	7.0	35	36	35	35	36	35	35	35	36	36	36
CQ	15.0	61	61	61	61	60	61	60	60	61	61	61
D	10.0	98	98	98	98	98	98	98	98	98	98	98
E	15.0	70	71	70	70	72	71	71	72	71	73	72
F	19.0	78	78	78	78	78	78	78	78	78	80	79
Office	101.0	74	74	74	74	73	73	73	73	73	74	73

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EXAMPLE 13: SQL BY PIPE REPORT

Note: One of the more recent additions to PressureWEB is the use of hyperlinked icons to provide additional information pertaining to an office or a device location. Notice the outlined white map icon in the example above next to the office name. This icon links to a PDF version of the stickmaps that were prepared for the office.

A small camera icon would indicate that there is a photo that may be helpful in identifying a device location or manhole condition, for example.

Trouble Conditions

One of the more recent additions to PressureWEB is a set of five links from the *Troubles* menu on the main navigation bar. Trouble information pertains either to existing alarms or to conditions that jeopardize cable pressure protection and potentially could become four star alarms.

Troubled Pipe Pressure Display — The screen shown in Example 14 is a prioritized sorting of air pipe EP readings that are below the Delivery Standard of 7.5 psi. The link can be selected from the All Offices or My Offices displays or from a Device Status display in a selected office.

The EP readings are ranked, top to bottom, from lowest to highest. If two or more EP readings are identical, the one(s) with the greater SF flow reading (SCFH) is ranked higher. The information in the display is helpful for identifying and correcting air pipe delivery problems. It is important to understand that it is impossible to maintain the desired underground cable pressure standard of 5.0 psi when pressure at the end of the pipe is only 4.0 or 4.5 psi, for example.

PressureWEB 3.2 from System Studies Incorporated Legend | About PressureWEB

All Offices My Offices Troubles Reports Setup Tools PressureMAP 28.01.D0

Troubled Pipe Pressure for My Offices [Explained](#) System Studies Incorporated

My Offices ▾ (Top 10) System SKIDOO (7777)

Office	Pipe	EP	SF	OAU	
How to fix					
1) SAN CLEMENTE (Delivery STD: 7.5)	C	4.5	75.0	14.6	
2) SNCZ EAST (Delivery STD: 7.5)	B	6.0	69.5	16.3	
3) SAN CLEMENTE (Delivery STD: 7.5)	B	6.0	60.0	8.5	
4) SAN CLEMENTE (Delivery STD: 7.5)	A	6.0	60.0	12.5	
5) SNCZ MAIN (Delivery STD: 7.5)	2C	6.5	83.9	12.5	
6) SAN CLEMENTE (Delivery STD: 7.5)	A	7.0	60.0	12.5	
7) SAN CLEMENTE (Delivery STD: 7.5)	A	7.0	60.0	12.5	
8) SNCZ EAST (Delivery STD: 7.5)	E	7.0	50.7	15.0	

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EXAMPLE 14: TROUBLED PIPE PRESSURE DISPLAY

Troubled Pipe Flow Display — The second link on the *Troubles* menu produces a prioritized sorting of air pipes whose source flow (SF device) does not equal the sum (MF Total) of the associated manifold (MF device) readings on the pipe. The pipes are ranked according to the flow difference in SCFH between the SF reading and the MF Total. The pipe with the greatest flow discrepancy is listed at the top.

As shown in Example 15 the displayed information includes and the sum of the manifold MF readings plus the number of manifolds associated with the pipe (MF Total column), the flow rate difference in SCFH between the SF and MF devices (Difference column), and the EP reading (EP column). If multiple EPs are installed on the pipe, the average EP reading is provided as well as the number of EP devices on the route. If no EP device is monitoring the pipe, this information is displayed in bold type as a reminder that the system design needs to be updated.

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Reports Setup Tools PressureMAP 28.01.D0

Troubled Pipe Flow for My Offices [Explained](#) System Studies Incorporated

My Offices ▼ (Top 10) System SKIDOO (7777)

Office	Pipe	SF	MF Total	Difference	EP
How to fix					
1) SCOTT'S VALLEY	A	79.4	10.7 (2)	68.7	No EP
2) SNCZ MAIN	2C	83.9	27.8 (7)	56.1	8.0 avg (2)
3) SNCZ MAIN	2B	71.9	19.0 (1)	52.9	No EP
4) SNCZ EAST	C	76.1	27.5 (2)	48.6	7.8 avg (2)
5) SAN CLEMENTE	B	60.0	13.0 (3)	47.0	7.3 avg (3)
6) SNCZ MAIN	1A	76.9	31.6 (3)	45.3	9.0 (1)
7) SNCZ MAIN	4B	65.0	105.8 (6)	-40.8	8.2 avg (2)
8) SCOTT'S VALLEY	C	42.1	2.9 (1)	39.2	8.5 (1)
9) SNCZ EAST	E	72.0	41.2 (3)	30.8	7.8 avg (3)
10) SAN CLEMENTE	C	75.0	45.0 (5)	30.0	4.5 (1)

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EXAMPLE 15: TROUBLED PIPE FLOW DISPLAY

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Troubled Air Dryers Display — This display lists all air dryer CA or \$A devices that are in alarm. Devices are listed by time of alarm, with the most recent ones appearing on top. The Device # column includes background coloring to identify the type of alarm: a red background designates an Alarm; a yellow background identifies a Priority. The Priority status is assigned to an alarm that has aged 24 hours.

Notice also, that in addition to the Office, Device #, TP, Curr, Tdy, and Address columns, Alarm Time and Task/Alarm Task information is provided. For the last column the Task number is displayed in bold type, followed by the alarm text that appears in the Alarm Condition Summary.

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Reports Setup Tools PressureMAP 28.01.D0

Troubled Air Dryers for My Offices [Explained](#) System Studies Incorporated

My Offices ▼ System SKIDOO (7777)

Office	Device #	TP	Curr	Tdy	Address	Alarm Time	Task/Alarm Text
SAN CLEMENTE	DT-0098	CA	ALRM	ALRM	1M171 EL CAM REAL N/BARCELONA	Sat Sep 27 03:00:30 2014	270001C / DT-0098 Contact Alarm reads alarm or error (ALRM) --**
SNCZ EAST	K001	CA	ALRM	ALRM	SNCZ EAST DRYER #2	Sun Sep 14 00:00:52 2014	2520022 / K001 Contact Alarm reads alarm or error (ALRM) --**
SNCZ MAIN	K001	\$A	ALRM	ALRM	SANTA CRUZ MAIN CENTRAL OFFICE	Sun Sep 14 00:00:52 2014	252002B / K001 High Priority Contact Alarm reads alarm/error (ALRM) --**
BOULDER CREEK	K014	\$A	ALRM	ALRM	CO, 141 FOREST	Sun Sep 14 00:00:52 2014	2520026 / K014 High Priority Contact Alarm reads alarm/error (ALRM) --**

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EXAMPLE 16: TROUBLED AIR DRYERS DISPLAY

Pegged Flow Devices — The Pegged Flow Devices display (Example 17) provides you with a count of the total flow devices in an office, the number of "pegged" devices and the percentage of pegged flow devices relative to the total. Please note that clicking the Office Name hyperlink in a Pegged Flow Devices display generates a popup window showing a Pegged Device by Pipe View with information in a format identical to the standard Device Status by Pipe View. See Example 18.

A flow transducer becomes pegged when the measured air flow meets or exceeds the upper measurement range of the device. A pegged resistive-output transducer will always indicate a value equal to the maximum flow range for that device. For example, a resistive 0–19 SCFH flow transducer becomes pegged when the measured air flow reaches 19.0 SCFH. In this case, the actual flow rate could be 19.0 SCFH or any other possible higher flow rate. There is no way of knowing based on the device reading.

With a loop current-output flow transducer, however, it is possible for PressureMAP/PressureWEB to read an accurate flow value up to twice the indicated upper range of the device. Consequently, a 0–47.5 SCFH flow transducer can provide readings up to 95 SCFH. Once the limit of the times-two reading capability is reached, the software will indicate a SHORT as the device output and list it in this display.

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Reports Setup Tools PressureMAP 28.01.D0

Pegged Devices for All Offices [Explained](#) System Studies Incorporated

All Offices by Pegged Percentage System MAP ENGINE

Office	Total Flow Devices	Pegged Count	Pegged %
BOULDER CREEK	1	1	100 %
SNCZ EAST	26	8	31 %
SNCZ MAIN	48	12	25 %
SCOTTS VALLEY	7	1	14 %
SAN CLEMENTE	20	2	10 %

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EXAMPLE 17: PEGGED FLOW DEVICES, ALL OFFICES

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Actions View Options Reports Setup Tools PressureMAP 28.01.D0

Pegged Device by Pipe View System Studies Incorporated

[SNCZ EAST](#) System MAP ENGINE

Device #	Access #	Address	TP	OAU	Curr	Tdy	Wk-1	Alarm	In
Pipe Route B SQI: No SQI									
133	004-25	MH492 SOQUEL DR	MF	6.3		19.0	19.0		
148	005-04	MH370 SOQUEL DR	MF	7.5		19.0	18.8		
Pipe Route CO SQI: No SQI									
128	004-20	CO B-METER PANEL H	DF	6.3		47.5	46.3		
130	004-22	C.O. B-METER PANEL	(DF)	6.3		47.5	47.5		
Pipe Route E SQI: No SQI									
140	004-32	MH65 WINKLE AV	MF	0.0		19.0	18.7		
Pipe Route F SQI: No SQI									
143	004-35	MH61 7TH/CAPITOLA RD	MF	7.5		19.0	19.0		
Pipe Route SQI: No SQI									
4-4	001-21		MF	0.0		19.0	19.0		
88-8	064-51		SF			100.	100.		

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EXAMPLE 18: PEGGED FLOW DEVICES BY PIPE VIEW, SELECTED OFFICE

PressureWEB 3.2 Capabilities Overview

System Errors Display — *System Errors* pertain primarily to communications failures between PressureMAP and a particular office, program execution errors, file creations errors, monitor-specific errors, etc. Depending upon where the user initiates the report:

- System Error information can be displayed for the entire PressureMAP system (shown in the screen sample below) or individually by Office.
- Report Information includes:
 - Task #
 - Error # (PressureMAP reference number)
 - Condition
 - Age (indication of how long ago the error was generated)
 - Level (****,***,**,*).

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Setup Tools PressureMAP 28.01.D0

All System Errors (Day 275) System SKIDOO (7777)

Task #	Error #	Condition	Age	Level
274003A	157	Can't write to Backup media for WED OPTICAL0 (OS 11)	Created 10 hrs, 2 mins ago.	****
2530024	868	Sundays MEGA unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530023	868	Sundays SAN CLEMENTE unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530022	868	Sundays SNCZ MAIN unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530021	868	Sundays SNCZ EAST unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
253001F	868	Sundays FELTON unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
253001D	868	Sundays BEN LOMAND unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
253001C	668	Saturday MEGA unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
253001B	668	Saturday SAN CLEMENTE unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
253001A	668	Saturday SNCZ MAIN unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530019	668	Saturday SNCZ EAST unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530017	668	Saturday FELTON unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530015	668	Saturday BEN LOMAND unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****
2530014	658	Weekdays MEGA unmonitored by AlarmMAP for 24 hrs	Created 22 days, 7 hrs, 2 mins ago.	****

EXAMPLE 19: SYSTEM ERRORS DISPLAY

Device Status Views

The **Device Status Views** bring the information organizational capabilities of PressureWEB to the forefront. Not only can you decide what type of listing order you would like to see when you click on an office hyperlink, but you can also change the organization of displayed information at any time using the *View Options* link on the main navigation bar. Device Status Views are available in the following, user-selected formats:

- By Pipe (Example 20)
- By Alarm (sorts by most severe [four star] to least severe [R])
- By Location
- By Type
- By Device
- By Access #
- By Unit # (Sparton monitors only)
- By Circuit # (Chatlos monitors only)
- By Cable (sorts devices by cable number in ascending order)
- Disabled Devices
- Devices Below Standard
- Devices Above Standard
- By Reading
- Office Dashboard (see pages 19 & 20)

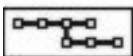
Each report, with the exception of Office Dashboard, includes:

1. Device #
2. Access #, Unit # (Sparton systems) or Circuit # (Chatlos systems)
3. Address
4. Device Type (TP)
5. OAU (populated for flow devices only)
6. Current (Curr) readings
7. Today (Tdy) reading
8. Wk-1 reading
9. Alarm status (****, ***, **, *, R)
10. How long an alarmed device reading was taken (shown in the *In* column).

Please note that if the *Expanded View Preference* option in *Setup* is checked, the display will also include columns that contain device readings for:

- *Last* (obtained from the monitor prior to the most current, *Curr*, readings)
- Days -1, through -6
- Extended weekly reading averages (*Wk-2*, *Wk-3* and *Wk-4*)

See the Expanded Device Status by Pipe View (Example 21) on the following page.



Note: If this icon appears next to the office name on a Device Status View, it indicates that the office is linked to an Adobe Acrobat PDF file of the office stickmap. Simply click the icon to view the single or multi-page document.

PressureWEB 3.2 Capabilities Overview

PressureWEB 3.2 from System Studies Incorporated Legend | About PressureWEB

All Offices My Offices Troubles Actions View Options Reports Setup Tools PressureMAP 28.01.D0

Device Status by Pipe View System Studies Incorporated

SNCZ EAST System SKIDOO (7777)

Device #	Access #	Address	TP	OAU	Curr	Tdy	Wk-1	Alarm	In
Pipe Route A SQI: 77									
007	001-07	MH1081 41ST AV	UP		9.5	9.5	9.5		
009	001-09	MH1081 41ST AV	UP		4.5	4.5	4.0	*	Today 6 hrs, 18 mins ago.
011	001-11	MH1081 41ST AV	UP		9.5	9.5	9.4		
013	001-13	MH1081 41ST AV	UP		9.0	9.0	7.5		
121	004-13	C.O. PIPE PANEL, 41ST/FREEWAY	SF	11.3	34.8	32.5	39.5		
147	005-03	P1935 41ST AV	AP		2.0	2.5	2.2		
150	005-06	MH1102 41ST/GROSS	MF	11.3	40.5	39.5	45.4	---	149
151	005-07	MH1111 41ST AV	EP		7.5	7.5	7.0		
Pipe Route B SQI: 82									
016	001-16	MH471 SOQUEL AV	UP		4.0	4.0	4.0	*	69
017	001-17	MH471 SOQUEL AV	UP		4.0	4.0	4.0	*	69
018	001-18	MH471 SOQUEL AV	UP		2.5	2.5	2.2	*	69
019	001-19	MH471 SOQUEL AV	UP		5.5	5.5	5.5		

EXAMPLE 20: DEVICE STATUS BY PIPE VIEW

PressureWEB 3.2 from System Studies Incorporated Legend | About PressureWEB

All Offices My Offices Troubles Actions View Options Reports Setup Tools PressureMAP 28.01.D0

Device Status by Pipe View System Studies Incorporated

SNCZ EAST System SKIDOO (7777)

Device #	Access #	Address	TP	OAU	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4	Alarm	In
Pipe Route A SQI: 77																			
007	001-07	MH1081 41ST AV	UP		9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5		
009	001-09	MH1081 41ST AV	UP		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0	*	Today 6 hrs, 32 mins ago.
011	001-11	MH1081 41ST AV	UP		9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.4	9.3	9.2	9.5		
013	001-13	MH1081 41ST AV	UP		9.0	9.0	9.0	9.0	9.0	9.0	9.0	8.5	7.5	7.5	7.4	7.3	7.3		
121	004-13	C.O. PIPE PANEL, 41ST/FREEWAY	SF	11.3	34.8	33.7	32.5	33.6	33.6	33.6	33.6	37.2	39.5	39.5	40.0	39.7	39.8		
147	005-03	P1935 41ST AV	AP		2.0	2.0	2.5	2.0	2.5	2.0	2.5	2.5	2.0	2.2	2.0	2.1	2.2		
150	005-06	MH1102 41ST/GROSS	MF	11.3	40.5	40.5	39.5	40.6	39.6	39.5	39.8	43.0	45.5	45.4	45.3	45.6	45.9	---	149
151	005-07	MH1111 41ST AV	EP		7.5	7.0	7.5	7.5	7.5	7.5	7.5	7.0	7.0	7.0	7.0	7.0	7.0		
Pipe Route B SQI: 82																			
016	001-16	MH471 SOQUEL AV	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	*	69
017	001-17	MH471 SOQUEL AV	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	*	69
018	001-18	MH471 SOQUEL AV	UP		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.2	2.2	2.0	2.4	*	69
019	001-19	MH471 SOQUEL AV	UP		5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5		

EXAMPLE 21: EXPANDED DEVICE STATUS BY PIPE VIEW

Notice that the SF Device types on the *Device Status by Pipe View* have a dark gray background to call attention to these important devices. Clicking on the SF link in the TP column produces a popup window that contains a summary of the important air flow-related information pertaining to the pipe route. Columns one and two pertain specifically to the SF device, while the two remaining columns include information about the air pipe manifolds and EP device(s) on the route.

Pipe A Totals			
SF OAU:	11.3	Total MF OAU:	11.3
SF Flow:	34.8	Total MF Flows:	40.5
SF Flow % of OAU:	308.0 %	EP (1) PSI:	7.5

Flow values represent TDY (today) reading

Close

EXAMPLE 22: AIR PIPE SF AND MF FLOW VALUES

Comment Tags

One of the more noteworthy improvements in PressureWEB 3.2 is the addition of **Comment Tags** on the Device Status View displays and the Specific Device Information screen. These tags appear only if one or more user comments have been entered for a specific device (see Examples 20 & 21). When a device comment has been posted, a small circular tag (or square tag for Microsoft Internet Explorer browsers) appears in the upper right corner of the *Device #* field. This tag contains a number which identifies how many comments are associated with the device (up to eight maximum). It also includes one of three possible background colors which identify how long ago the comment was posted for a specific device:

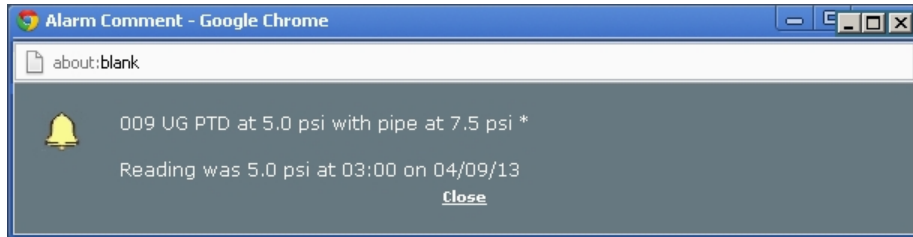
- 4 A red-colored background indicates that the comment was entered into PressureMAP or PressureWEB within the last week.
- 5 An orange background color signifies that the most recent comment was entered between one and three weeks ago.
- 1 A gray-colored tag identifies a comment(s) that is over three weeks old.

Once a comment has been added to a device and a *Comment Tag* appears on the Device Status View display, you can view the comment(s) either by clicking on the tag or letting your mouse pointer hover over it. Clicking on a tag produces a Device Comments popup window where you can view the comment(s) and/or add one or more comments of your own (see Example 41 on page 35).

The "mouse hover" method produces a browser-generated text display that shows the specific comment(s) pertaining to the device. Depending upon your particular browser, the displayed text will automatically disappear after several seconds or remain visible until you move the mouse pointer off of the tag. If the displayed text disappears before you finish reading the comment(s), either refresh the browser display or click the tag.

Alarm Condition Summary

When you click on a red star in the Device Status Report's *Alarm* column, an **Alarm Condition Summary Report** popup box appears. This alarm information includes the task number associated with the alarm, an alarm identification summary, and current reading information.



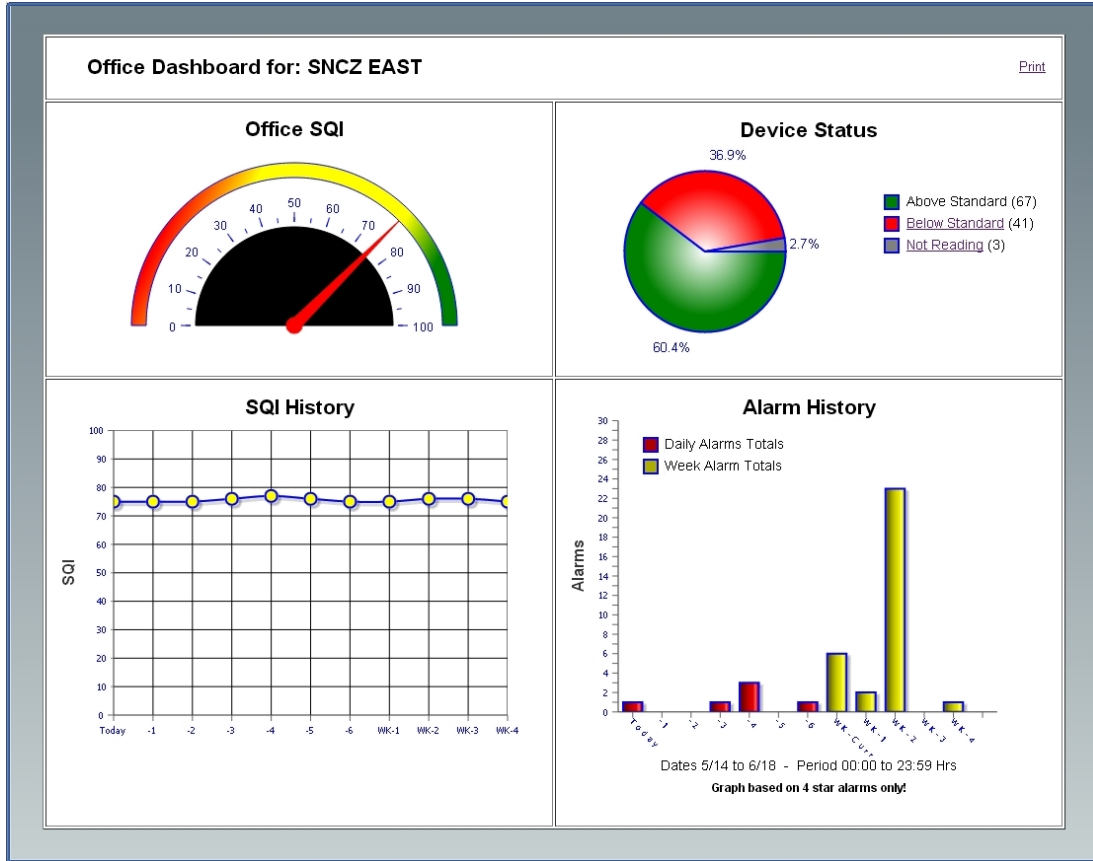
EXAMPLE 23: ALARM CONDITION SUMMARY

Office Dashboard

One of the more recent additions to PressureWEB's expanding capabilities provides a quick visual update of the monitoring condition of an office or multiple offices. A link to the *Office Dashboard* is provided on the *View Options* drop-down menu located on PressureWEB's main navigation bar. If you click on this link when viewing *All Offices* or *My Offices* information, the dashboard will display graphical information pertinent to all of the offices you are viewing. If you are viewing one of the *Device Status View* pages for an office and then click on the Office Dashboard link, the dashboard displays information specific to the individual office you are viewing (Example 24).

As you can see in this example, the Office Dashboard includes charts and graphs to help you evaluate key office/device statistics: Office SQI, Device Status, Alarm History and SQI History. Mouse rollover information helps to support the visual information provided.

The Office Dashboard information for a single office also includes two additional hyperlinks located next to the Device Status pie graph: devices *Below Standard* and *Not Reading*. Clicking on either link will generate the appropriate device report in PressureWEB's familiar Device Status View display format (see Example 25 on the next page). The *View Options* menu located on the main navigation bar provides additional options for sorting the device data: for example, by *Pipe*, by *Location*, by device *Type*, by *Device* number, etc.



EXAMPLE 24: OFFICE DASHBOARD

PressureWEB 3.2 from System Studies Incorporated Legend About PressureWEB

All Offices My Offices Troubles Actions View Options Reports Setup Tools PressureMAP 28.01.D0

Devices Below Standard View System Studies Incorporated

SNCZ EAST System SKIDOO (7777)

Device #	Access #	Address	TP	OAU	Curr	Tdy	Wk-1	Alarm	In
009	001-09	MH1081 41ST AV	UP		4.5	4.5	4.0	*	3
016	001-16	MH471 SOQUEL AV	UP		4.0	4.0	4.0	*	76
017	001-17	MH471 SOQUEL AV	UP		4.0	4.0	4.0	*	76
018	001-18	MH471 SOQUEL AV	UP		2.5	2.5	2.5	*	76
091	003-19	MH1041 CHANTICLEER	UP		3.5	3.5	3.5	*	8
092	003-20	MH1041 CHANTICLEER	UP		3.5	3.5	3.5	--*	59
101	003-29	MH272 CAPITOLA RD	UP		2.0	2.0	2.0	**	80
102	003-30	MH272 CAPITOLA RD	UP		4.5	4.5	4.7	*	6

EXAMPLE 25: DEVICES BELOW STANDARD VIEW

Office Information Display

The PressureWEB **Office Information Display** (sample below) contains specific information about the configuration of the office monitor, including:

- File date (mm/dd/yy), Julian date, Last edited date
- Office name
- Monitor type
- Phone number or IP address
- Office Mode (enabled/disabled)
- Baudrate (for non-LAN offices)
- User Defined Devices (on/off)
- Password 1
- Trunk/Toll tolerance
- MAP Alert baudrate
- MAP Alert number (phone number or IP address)
- Alert Sensitivity ranking
- Modem Site (Digi PortServer association)
- Remarks
- Office standards (either psi / SCFH) for— aerial cables, buried cables, underground cables, delivery pressure, and the flow standard used in the office (for computing OAU).

To access this display, click on the office name from any of the Device Status View displays. The link is located in the tan-colored *Title Bar* below the name of the report.

PressureWEB 3.2 from System Studies Incorporated
Legend About PressureWEB

All Offices My Offices Troubles Actions Reports Setup Tools
PressureMAP 28.01.D0

Office Information

SNCZ EAST
System SKIDOO (7777)

File date:	10/02/14 (mm/dd/yy)	(275)	Last edited:	08/18/14 (mm/dd/yy)
Office name:	SNCZ EAST			Monitor Type:
Phone number:	TW4622999			
Office Mode:	ENABLED			
Baudrate:	2400	User Defined Devices:	ON	
Password 1:	Available in PressureMAP			Trunk/Toll Tolerance:
		MAP alert baudrate:	2400	
MAP alert #:		Alert sensitivity:	3	
Modem Site:	DIGI_A			
Remarks:				
Aerial std:	2.0	Buried std:	3.0	Undgnd std:
Delivery std:	7.5	Flow std:	1.25	

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EXAMPLE 26: OFFICE INFORMATION SCREEN

Specific Device Information Display

The next important PressureWEB report is the *Specific Device Information Display*. This view is accessed by clicking on one of the Device # hyperlinks in column 1 of the Device Status display. Specific device information includes:

- Device #, Access #, Circuit # or Unit #
- Device Type, plus associated data (e.g. range, sheath-mileage for flow device; norm reading for contact alarm [normally OPEN or normally CLOSED])
- Address, Location, Pipe association
- OAU (if applicable)
- Transducer Type
- Sheaths (monitored cable identification)
- Cable (identification of cable containing the monitoring pair)
- Primary Pair designation
- Secondary Pair, Sort Key, Plat Number, Stickmap
- Phone # (for subscriber pair application)
- Latitude and Longitude, Office and Field references
- Distance from device back to the closest Location toward the central office
- Remarks field (80 character)
- Device Readings: Current (Curr) , Last, Today (Tdy), previous six days, four prior weekly averages

PressureWEB 3.2 from System Studies Incorporated Legend | About PressureWEB

All Offices My Offices Troubles Actions Device Links Reports Setup Tools PressureMAP 28.01.D0

Specific Device Information System Studies Incorporated

SNCZ EAST **System SKIDOO (7777)**

Device #:	009 * 1	Access #:	001-09	Type:	UP								
Address:	MH1081 41ST AV		Loc:	2	Pipe:	A							
TD Type:	RP/RG-PSI												
Sheath(s):	17	ADTC21											
Cable:	14	Prim Pair:	T826	Sec Pair:									
Plat:		Stickmap:	1	Sort Key:									
Phone #:	DED-A												
Latitude:	36.978283	Longitude:	-121.964867										
Office 1 Loc:		Distance 1 (kft):	.	Field 1 Loc:									
Office 2 Loc:		Distance 2 (kft):	.	Field 2 Loc:									
Remarks:	(T-009,DED #009) CPM-PTD-009												
Readings:	Curr	Last	Tdy	-1	-2	-3	-4	-5	-6	Wk-1	Wk-2	Wk-3	Wk-4
	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.0	4.0	4.0	4.0	4.0	4.0

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EXAMPLE 27: SPECIFIC DEVICE INFORMATION SCREEN

Reports

Another important link on PressureWEB's main navigation bar is *Reports*. This feature gives you the ability to view and print various PressureMAP reports in a familiar text format. When you click the Reports link, a popup window appears (as shown in the Example 28). The drop-down box located at the top of the window provides options for selecting the various reports that have been enabled for your system.

PressureWEB's default Report selections include Dispatch Priorities (Top 5 Report), Dispatch Histories, CPAMS Information (Device Status and Device Status by Pipe Reports), and the Standards Report. Screen samples are provided in the following pages for these report options. Additional Reports that will appear if added to the system as Supplemental Updates could include the following:

- SQL Report
- Alarm Report
- Standards Report (Rev B, C & D)
- BellSouth Standards Report
- OAU Report
- Flat Cable Report
- SBC Standards Report
- Quality Report

Please note that when you click the Reports link from the *All Offices* display, all of the offices in the system will be pre-displayed when the Reports window appears. When Reports is clicked from one of your *My Offices* displays, the customized list of offices that you selected in *Setup* will appear. When Reports is selected from any office-related screen, only that particular office will be displayed on the Reports window.

PressureWEB Reports

Reports: Dispatch Priorities (Top 5)

Select Offices for report:

My Offices

Select All Unselect All

- 1. SWEL3
- 2. SNCZ MAIN
- 3. BEN LOMAND
- 4. SNCZ EAST
- 5. SCOTTS VALLEY
- 6. FELTON
- 7. BOULDER CREEK

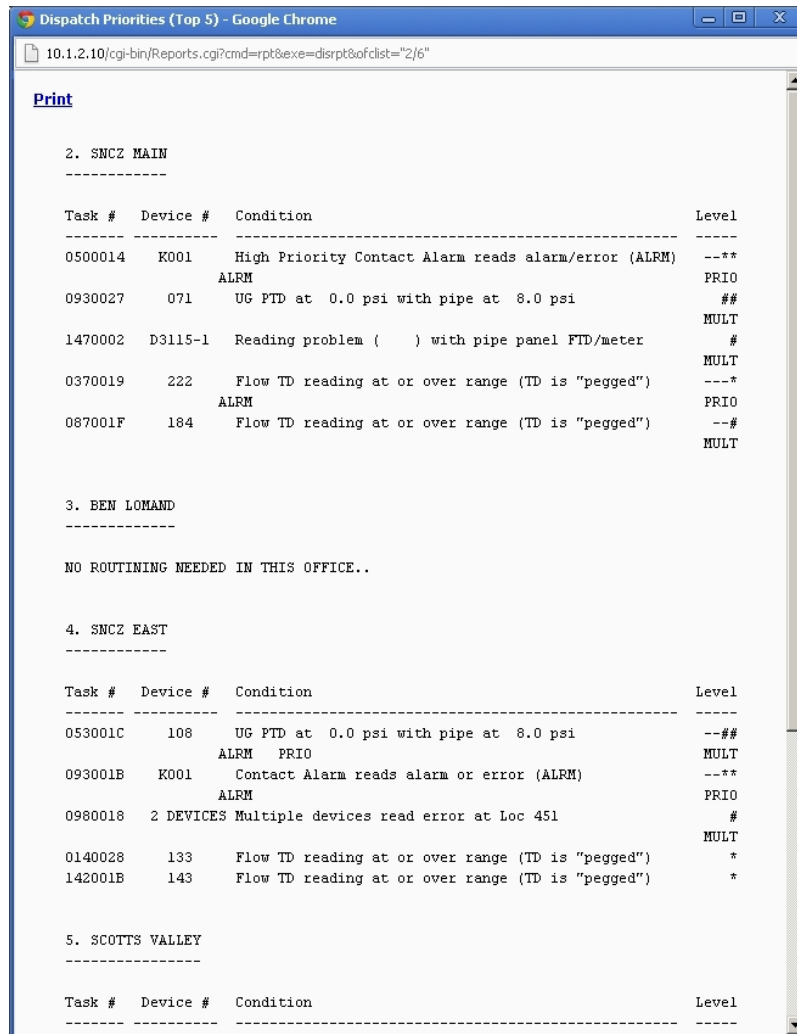
Select All Unselect All

Create Report

EXAMPLE 28: PRESSUREWEB REPORTS SELECTION MENU

Located on the next several pages are examples of some of report types you can generate.

- Dispatch Priorities (Top 5).** If you select this option from the drop-down menu, PressureWEB generates a printable list of the top five priority dispatches in your selected office or offices. This report includes any System Alarms that may be associated with the office(s). Notice that a *Print* link is provided near the top left corner of the report. This makes it easy to generate and retain hard copies of your dispatches for reference or distribution.



EXAMPLE 29: DISPATCH PRIORITIES REPORT

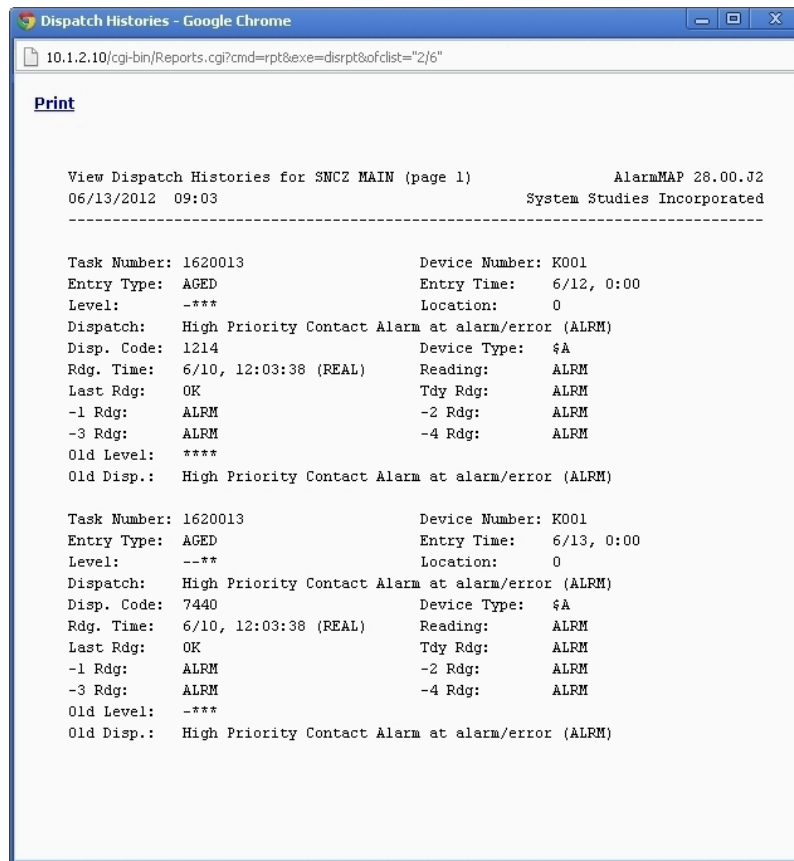
- **Dispatch Histories.** This second PressureWEB report option generates an expanded version of the PressureWEB Reports popup window. As you can see in the lower right section of the example below, there are a number of report sorting options available for Dispatch Histories.

History by task number is the default setting, but you can choose history sorting by device number, pipe, location, or log entry type. The *History by dispatch log entry type* classification pertains to the message(s) that appear on Dispatch Activity Line of the Dispatch Report (for example: CREATED, AGED, CLEARED, INFLATED, FILTERED, etc).

The screenshot shows the 'PressureWEB Reports' interface. At the top, there is a dropdown menu for 'Reports' set to 'Dispatch Histories'. Below this, the interface is divided into two main sections. The left section, titled 'Select Offices for report:', contains a 'My Offices' dropdown, 'Select All' and 'Unselect All' buttons, and a list of seven offices with checkboxes: 1. SWEL3, 2. SNCZ MAIN, 3. BEN LOMAND, 4. SNCZ EAST, 5. SCOTTS VALLEY, 6. FELTON, and 7. BOULDER CREEK. Below the list are another 'Select All' and 'Unselect All' buttons. The right section, titled 'Dispatch Histories:', contains 'Start Date' (4/9/2013) and 'End Date' (4/10/2013) dropdowns, 'Start Time' (00:00) and 'End Time' (23:59) dropdowns, and text indicating 'Set beginning and ending viewing dates [04/09, 04/10]' and 'Set daily viewing period [00:00, 23:59]'. Below these are five radio button options for sorting: 'History by task number' (selected), 'History by device number', 'History by pipe', 'History by location', and 'History by dispatch log entry type'. At the bottom center of the interface is a 'Create Report' button.

EXAMPLE 30: DISPATCH HISTORIES REPORT OPTION SELECTIONS

The report shown on the following page is an example of a Dispatch History by Device Number for a high priority air dryer contact alarm in a central office. The information in the report includes not only the current reading that existed for the dispatch at the specified date and time, but also reading histories (Last, Tdy, -1,-2,-3,-4). In many cases, this information is helpful in evaluating the probable cause of the dispatch.



EXAMPLE 31: DISPATCH HISTORIES REPORT

- CPAMS Information.** The next PressureWEB report option gives you the ability to generate either a Device Status Report or a Device Status by Pipe Report for an individual office or group of offices. This information is identical to what is provided in PressureMAP by selecting the CPAMS Information option from the PressureMAP Master Menu.

An example of PressureWEB’s CPAMS Information selection popup box is shown on the next page. You can choose to display a report for all of your offices, or for an individual office.

The screenshot displays the 'PressureWEB Reports' interface. At the top, there is a dropdown menu for 'Reports' currently set to 'CPAMS Information'. Below this, the interface is divided into two main sections. The left section, titled 'Select Offices for report:', contains a 'My Offices' dropdown menu, two 'Select All' and 'Unselect All' buttons, and a list of seven offices with checkboxes: 1. SWEL3, 2. SNCZ MAIN, 3. BEN LOMAND, 4. SNCZ EAST (checked), 5. SCOTTS VALLEY, 6. FELTON, and 7. BOULDER CREEK. The right section, titled 'CPAMS Reports:', contains two radio button options: 'Device Status Report' (selected) and 'Device Status Report by Pipe'. At the bottom center of the interface is a 'Create Report' button.

EXAMPLE 32: CPAMS INFORMATION REPORT SELECTION

The information contained in the Device Status reports is similar in format to what is provided in a Sparton Status Report. The report content is also similar to the type of information provided in PressureWEB's Device Status Views (when you click an office name in your *All Office* or *My Offices* displays).

The screen sample on the next page shows a Device Status Report for a single office, with the devices listed in numerical order.

CPAMS Information - Google Chrome
 10.1.2.10/cgi-bin/Reports.cgi?cmd=prt&exe=cpamsinrpt&ofclist="4"&cpamsrpt=devstat

[Print](#)

Device Status for SMCZ EAST (page 1) PressureMAP 28.00.J2
 04/11/2013 15:49 System Studies Incorporated

Device Information last edited on 03/27/13

Device #	Address	TP	Pipe	Curr	Tdy	TD-1	Status
006	MH1081 41ST AV	UP	C0	9.5	9.5	9.5	
007	MH1081 41ST AV	UP	A	9.5	9.5	9.5	
009	MH1081 41ST AV	UP	A	5.0	5.0	5.0	*
011	MH1081 41ST AV	UP	A	9.5	9.5	9.5	
013	MH1081 41ST AV	UP	A	7.0	7.0	6.5	
016	MH471 SOQUEL AV	UP	B	3.5	3.5	3.5	*
017	MH471 SOQUEL AV	UP	B	5.0	5.0	5.0	*
018	MH471 SOQUEL AV	UP	B	2.5	2.5	2.5	*
019	MH471 SOQUEL AV	UP	B	5.5	5.5	5.5	
020	MH471 SOQUEL AV	UP	B	5.0	5.0	5.0	*
026	MH54 PORTER ST, SOQUEL	UP	B	7.5	7.0	7.0	
033	MH483 SOQUEL DR	UP	B	6.0	6.0	6.0	
034	MH483 SOQUEL DR	UP	B	7.0	7.0	7.0	
036	MH483 SOQUEL DR	UP	B	6.5	6.5	6.5	
041	MH511 SOQUEL DR	UP	B	6.0	6.5	6.0	
042	MH511 SOQUEL DR	UP	B	7.5	8.5	8.0	
045	MH511 SOQUEL DR	UP	B	8.0	8.0	8.5	
046	MH1065 SOQUEL DR	UP	B	9.0	8.5	8.0	
047	MH1065 SOQUEL DR	UP	B	8.5	8.5	8.5	
051	MH672 CAPITOLA RD	UP	C	6.0	6.5	6.0	
052	MH672 CAPITOLA RD	UP	C	6.0	6.0	6.0	
053	MH672 CAPITOLA RD	UP	C	6.5	6.5	6.5	
054	MH672 CAPITOLA RD	UP	C	5.0	5.0	5.0	*
056	MH1386 CAPITOLA AV	UP	C	6.0	6.0	6.0	
057	MH1386 CAPITOLA AV	UP	C	7.5	7.5	7.5	
058	MH1386 CAPITOLA AV	UP	C	8.5	8.5	8.5	
061	MH283 41ST AV	UP	D	6.5	6.5	6.0	
062	MH283 41ST AV	UP	D	8.5	8.5	8.5	
063	MH283 41ST AV	UP	D	5.0	5.5	5.0	*
064	MH283 41ST AV	UP	D	7.5	7.5	7.5	
065	MH283 41ST AV	EP	D	8.0	8.0	7.5	
066	MH289 41ST AV	UP	D	7.0	7.5	7.0	

EXAMPLE 33 DEVICE STATUS REPORT

- **Standards Reports.** There are numerous reports that were developed over the years in PressureMAP in response to customer requests. These include the Standards Report, the Alarm Report, the SQI Report, the OAU Report, the Flat Cable Report, etc.

Not all of the reports are available for every PressureMAP/PressureWEB system. Only the *Standards Report* is available by default. The other reports can be requested from System Studies, if desired, and installed on a PressureMAP system using the Supplemental Update procedure. Once the reports are in the PressureMAP system they are available from PressureWEB using the PressureWEB Reports popup window.

Notice that when you select the Standards Report from the Reports drop-down menu (Example 34), the pop-up window includes text fields for entering the desired report date and an optional report title, if desired. You can also generate reports for all, some or one of the offices on your list. When you click the *Create Report* button, a report similar in format to the one in Example 35 displays.

PressureWEB 3.2 Capabilities Overview

PressureWEB Reports

Reports:

<p>Select Offices for report:</p> <p><input type="text" value="Dick Perez"/></p> <p><input type="button" value="Select All"/> <input type="button" value="Unselect All"/></p> <ul style="list-style-type: none"><input type="checkbox"/> 1. SWEL3<input type="checkbox"/> 2. SNCZ MAIN<input type="checkbox"/> 3. BEN LOMAND<input checked="" type="checkbox"/> 4. SNCZ EAST<input type="checkbox"/> 5. SCOTTS VALLEY<input type="checkbox"/> 6. FELTON<input type="checkbox"/> 7. BOULDER CREEK <p><input type="button" value="Select All"/> <input type="button" value="Unselect All"/></p>	<p>Report Date:</p> <p><input type="text" value="4/11/2013"/></p>	<p>Optional Report Title:</p> <p><input type="text"/></p>
---	---	---

EXAMPLE 34: STANDARDS REPORT SELECTION

Standards Report (page 1) ReportMAP 28.00.J2
 06/13/2012 13:31 System Studies Incorporated

Type of TD's	Std	Total TD Count	Non-Rdg (verbose) Count	TD Count Not Std/Over OAU	Percent Not Std/Over OAU
-- 4. SCOTT'S VALLEY (06/13/12) --					
Undgnd FTD's	5.0	24	2	4	25.0
Mid/End FTD's	7.5	1	0	0	0.0
Source FTD's		5	0	4	80.0
Distribut FTD's		1	0	0	0.0
Manifold FTD's		3	0	0	0.0
Office Totals		34	2	8	29.4
-- 5. SNCZ EAST (06/13/12) --					
Aerial FTD's	2.0	2	0	0	0.0
Undgnd FTD's	5.0	71	2	16	25.4
Mid/End FTD's	7.5	11	0	3	27.3
Source FTD's		6	0	5	83.3
Distribut FTD's		2	0	2	100.0
Manifold FTD's		19	0	14	73.7
Office Totals		111	2	40	37.8
-- 6. SNCZ MAIN (06/13/12) --					
Aerial FTD's	2.0	1	0	0	0.0
Buried FTD's	3.0	1	0	0	0.0
Undgnd FTD's	5.0	58	4	4	13.8
Mid/End FTD's	7.5	8	1	1	25.0
Delivery FTD's	7.5	1	1	0	100.0
Source FTD's		9	0	8	88.9
Distribut FTD's		8	0	6	75.0
Manifold FTD's		29	2	22	82.8
Office Totals		115	8	41	42.6

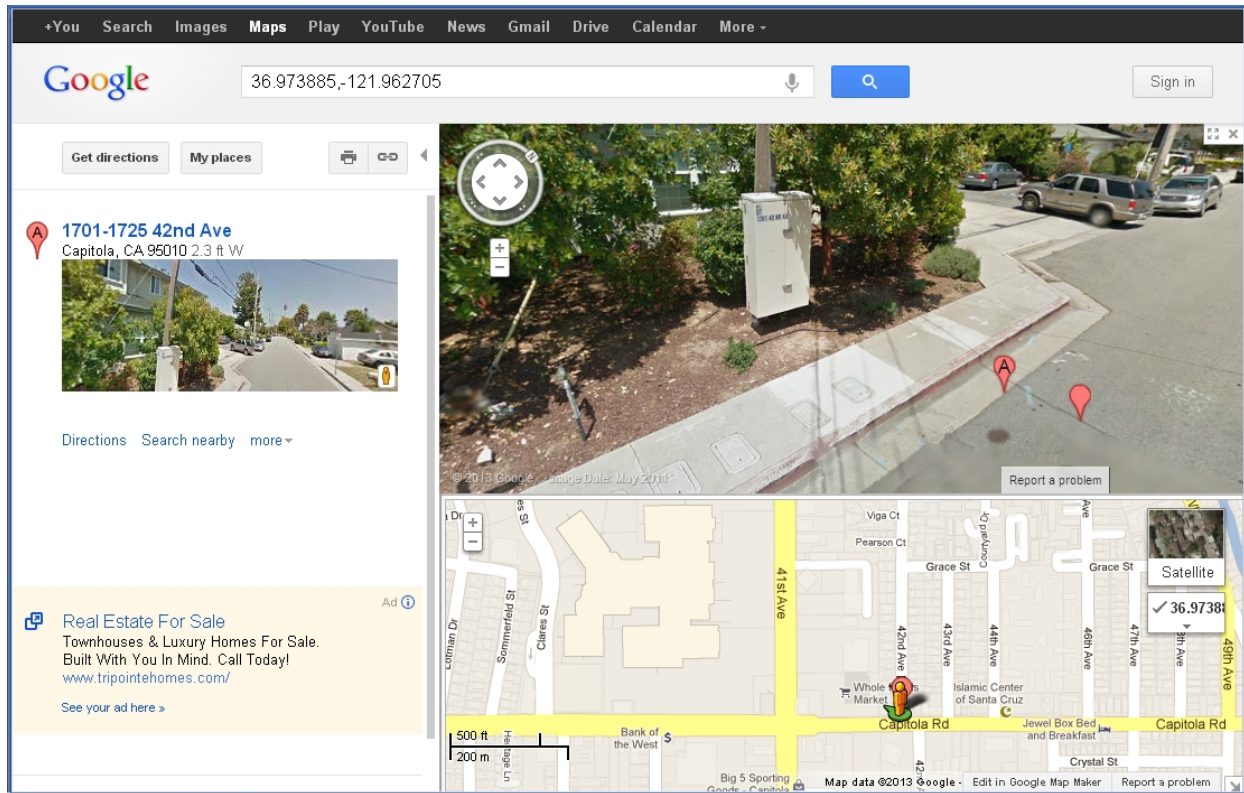
EXAMPLE 35: STANDARD REPORT

Action Links

The *Actions* link on PressureWEB's main navigation bar, which is accessed from the *Specific Device Information Screen*, enables you to perform several user-initiated actions.

Map Device link: If Latitude and Longitude coordinates have been entered into PressureMAP during the data entry process, this link will produce a Google map showing the position of the device relative to its closest mapped street location. This information is useful for quickly identifying a device location relative to cross streets, natural and man-made landmarks, etc. Refer to Example 36 on the next page.

PressureWEB 3.2 Capabilities Overview



EXAMPLE 36: GOOGLE MAP SHOWING LINKED DEVICE

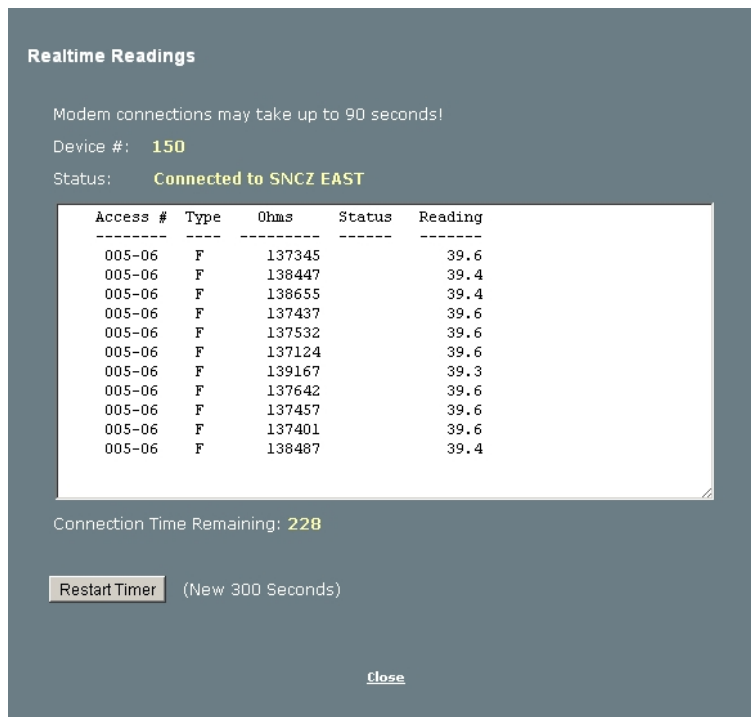
The second *Actions* link, **Route Tone**, pertains to 289H LSS-monitored offices that are equipped with a Tone Utility Card. Clicking the link generates a popup window where you can select a tone frequency to place on the selected monitoring device pair.



EXAMPLE 37: SET TONE ACTION OPTIONS

Another link to a **Realtime Readings Report** (below):

- Offers 300 seconds of device polling information (renewable by user input)
- Lists Access #, Type (device type), Ohms, Status and Device Reading.



EXAMPLE 38: REALTIME READINGS DISPLAY

PressureWEB 3.2 Capabilities Overview

The **Pair Diagnostics Report** (shown below):

- Provides the following output:
 - Voltage DC—VDC: Tip/Ground, VDC: Ring /Ground
 - Voltage AC— VAC: Tip/Ground, VAC: Ring /Ground
 - Resistance—Tip/Ring Ohms, Tip/Ground Ohms, Ring/Ground Ohms
 - Capacitance—displays p-farads, kilofeet measurement, and Location (in CO or out) for both the Tip and the Ring side of the pair.
- Offers 300 seconds of polling information (renewable by user input).

Pair Diagnostics

Modem connections may take up to 90 seconds!
 Status: **Pair Diagnostics Complete**
 Connection Time Remaining:

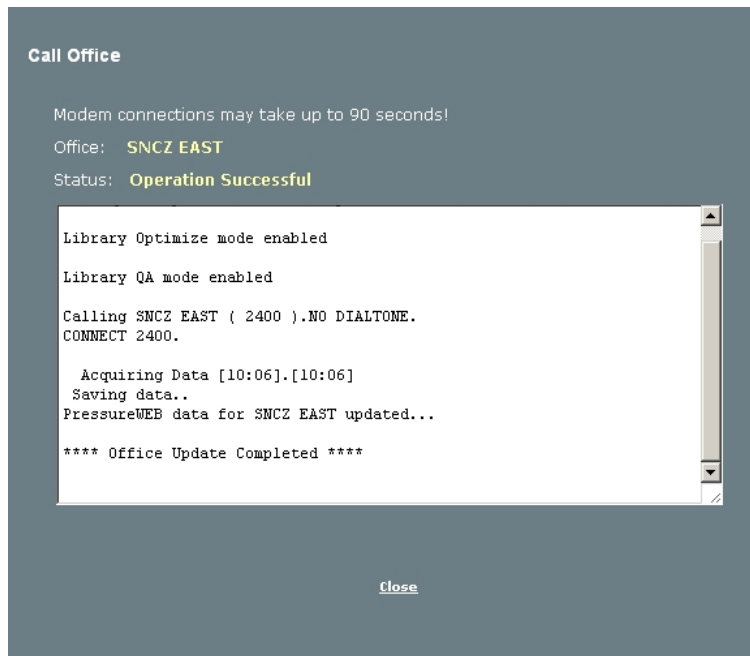
(New 300 Seconds)

Access # 150						
Voltage DC						
VDC: Tip/Gnd		1.5	VDC: Ring/Gnd		1.4	
Voltage AC						
VAC: Tip/Gnd		0.2	VAC: Ring/Gnd		1.1	
Resistance						
Tip/Rings Ohms		139564	Tip/Gnd Ohms		13065189	Ring/Gnd Ohms 9408968
Capacitance						
--- Tip Side ---	p-farads	753,557.0	Kilofeet	31.9	Location	OUT
--- Ring Side ---	p-farads	7,735.0	Kilofeet	0.3	Location	IN

EXAMPLE 39: PAIR DIAGNOSTICS DISPLAY

The **Get New Office Readings Report** (next page) generates a popup window that shows:

- The progress of the various activities:
 - Calling, Acquiring data, Updating Alarms, Developing Dispatches, etc.
- The Status of the operation:
 - Operation in Progress
 - Operation Successful



EXAMPLE 40: GET NEW OFFICE READINGS DISPLAY

Device Comments

One of PressureWEB's newest features is the ability to add and view comments that pertain to a specific device. Clicking *Device Links* located on the Specific Device Information screen's navigation bar generates a *View/Add Comments* sub menu link. This link launches a popup window where you can enter a new comment or view previous ones (see Example 39 on next page). Please note that it is also possible to launch the Device Comments popup display by using the mouse pointer to click on a Device Status View report's *Comments Tag* (refer to Examples 20 & 21 on page 17).

A total of eight records will be retained on the ***Device Comments*** screen. These comments, added either in PressureMAP 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 lines of 62 characters each.

PressureWEB Device Comments
SNCZ EAST, Device 150

Wed 3-May-2006 13:17:41 C05031304891
Wed 1-Mar-2006 14:22:08 PAIR TROUBLE REPAIRED. NOW READING CORRECTLY RP3276
Mon 13-Feb-2006 14:34:15 PAIR TRBLE ON THIS DEVICE. DATA NOT ACCURATE. RP3276 RESTORAL DATE UNKNOWN.
Mon 13-Feb-2006 10:49:42 C02131042889
Tue 6-Sep-2005 17:28:57 C09061727873 FOR AM DISP,PRESSURE STABLE ON PIPE-1A RTE.
Tue 30-Aug-2005 15:53:46 C08301550866
Mon 11-Jul-2005 16:22:22 C07111600873 FOR IMMED DISP,ALSO T061

Add comment:

[Close](#)

EXAMPLE 41: DEVICE COMMENTS DISPLAY

Tools Links

There are three important and practical leak locating tools available with PressureWEB 3.0: an Online Calculator, the *Cable pressurization Theory & Practice Manual*, and a new Leak Location Graphing Tool.

The ***Online Calculator*** (below) makes it easy to determine a cable's pneumatic resistance for leak locating. It also includes the three primary leak locating formulas: the *Zero Leak Projection*, the *Back Projection* and the *Air Flow Calculation*. Once you calculate a cable's pneumatic resistance, the value is automatically inserted into the other formulas to streamline the calculation process.

Calculate Pneumatic Resistance

Type: Gauge: # of pairs:

Pneumatic resistance has not been calculated!

Zero Leak Projection

PSI: SCFH:

Not enough data was input to calculate ZLP!

Back Projection

PSI past ZLP:

Not enough data was input to calculate back projection!

Calculate Air Flow

PSI 1: PSI 2: Feet:

Not enough data was input to calculate air flow!

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Close

EXAMPLE 42: PRESSUREWEB LEAK LOCATING CALCULATIONS

The *Cable Pressurization Theory & Practice Book* (shown below) is a 300-page reference source used in System Studies' training courses. It includes leak locating concepts, air pressure system component descriptions, engineering principles, information on required tools, etc. Hyperlinks, expandable Table of Contents, Indexing and a Glossary make this tool a quick and easy-to-use resource for cable pressurization management and maintenance technicians.

Contents Index Glossary System Studies Incorporated

Pressure System Reference Info

High Resolution Dual Transducers

The System Studies High Resolution Dual Transducer combines the capabilities of the High Resolution Pressure and Flow Transducers into one device. In appearance, it looks the same as the flow transducer (shown below), but it is equipped with two circuit boards and two working conductor pairs (plus a spare).

How They Work

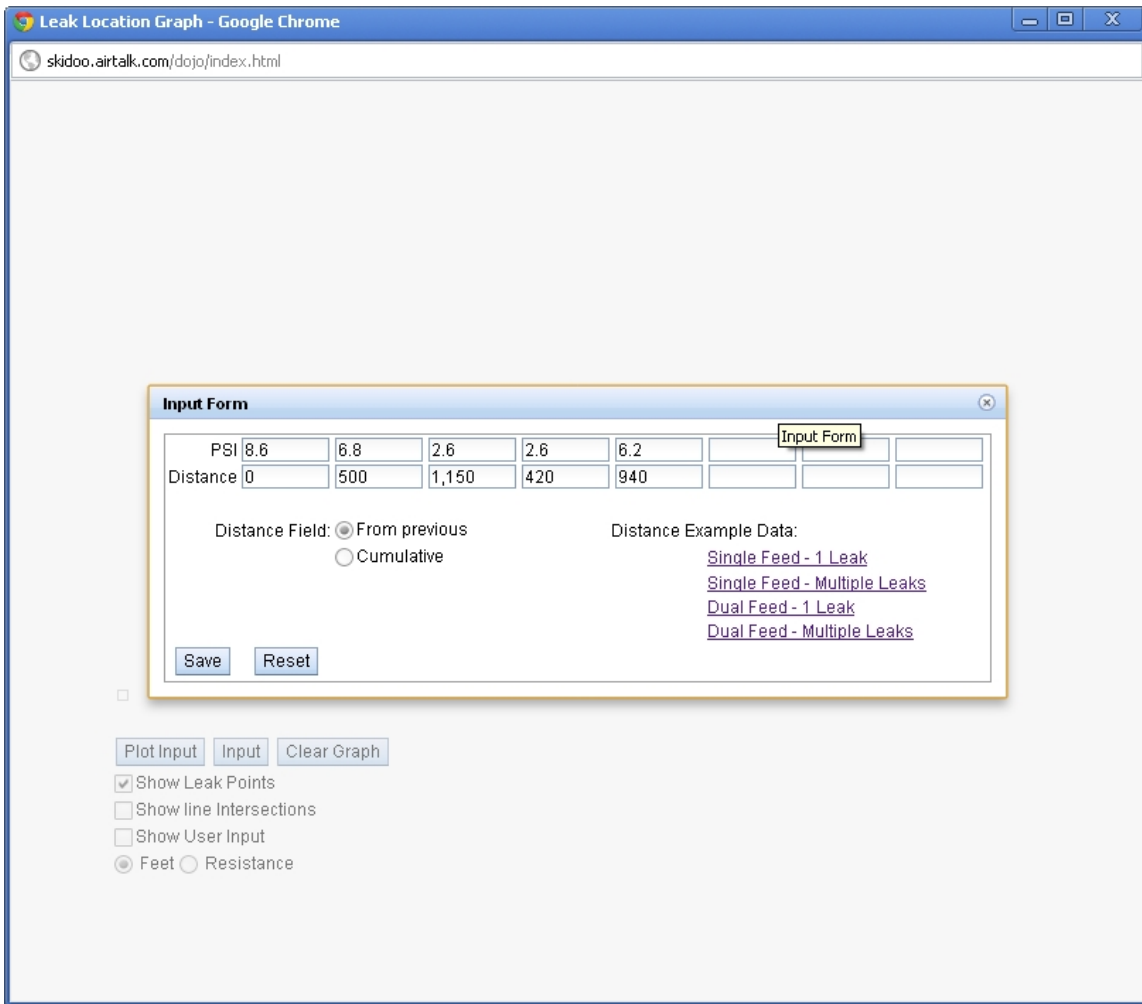
The High Resolution Dual Transducer works with a Flow Finder to provide the differential pressure measurement used for both the flow and pressure readings. The transducer's flow circuit board contains a sensor that measures the difference between the Flow Finder's high and low pressure sides (refer to High Resolution Flow Transducer explanation in this section). The circuit board for the pressure transducer is located directly below the flow circuit board. It measures the pressure entering the housing from the Flow Finder's low pressure side connection (see below).

Basics of Pressure
Anatomy
Air Dryers
Air Pipe
Air Pipe Manifolds
Barometric Pressure Transducer
Buffer Pipe
Central Office Manifolds
Central Office Plugs
Check Valves
Dial-a-Ducer
Distribution Panels
Flow Banks
Flow Finders
Flow Measurement Assembly
High Resolution Dual Transducers
High Resolution Flow Transducer
High Resolution Pressure Transducers
High Resolution Transducer Model Var
Instrument Panel
Manifold Monitoring Assembly
Office Monitoring Equipment
Pipe Alarm Panels
PressureMAP
Pressure Contactors
Pressure Schematic: C. O.
Pressure Schematic: Field
Pressure System Functions
Pressure System Objectives
Pressure Tubing
Pressurization Monitors
Remote Dryers
Resistive Flow Transducers
Resistive Pressure Transducers
Selector Pair Saver
Engineering
Maintenance & Repair
Tools

Internet

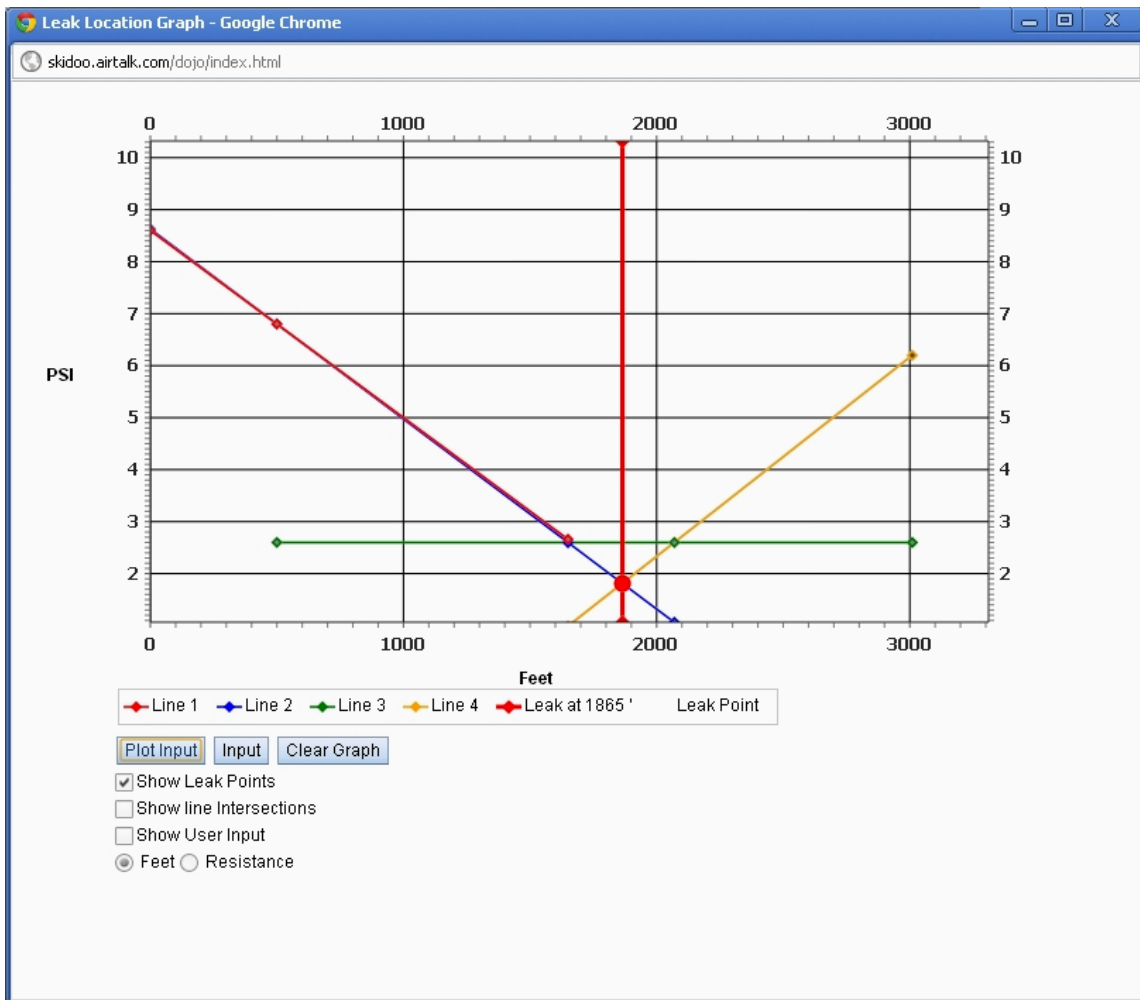
EXAMPLE 43: CABLE PRESSURIZATION THEORY & PRACTICE ONLINE REFERENCE

Leak locating technicians can now take advantage of a cable pressure **Graphing Tool** in PressureWEB 3.2. Previously, System Studies offered telephone company personnel a graphing application, called the *Leak-O-Matic Gizmo*, on floppy diskette and CD-ROM. That application was written for older operating systems and was OS-dependent. PressureWEB's new graphing tool, shown below, can be accessed directly from the browser via a hyperlink.



EXAMPLE 44: GRAPHING TOOL INPUT FORM

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* above it, 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, like the sample graph shown on the next page.



EXAMPLE 45: PLOTTED DUAL FEED SYSTEM GRAPH

One of the newest PressureWEB capabilities, **Data Export**, is available from any of the Device Status View listings by selecting the *Tools, Data Export* link. Clicking this link produces a popup window that includes all of the data for the office in a scrollable data grid (see example on next page). The Data Export grid allows you to perform these simple editing functions:

- Resort data in ascending or descending values by clicking on the desired column heading description.
- Rearrange columns by clicking and holding a column heading and dragging it to the desired location.
- Choose all of the data displayed in the grid by clicking the *Select All* button at the bottom of the grid.
- Select an individual row by clicking in the box just to the left of the *ID* column.

- Select multiple sequential rows by pressing and holding the <Ctrl> and <Shift> keys and highlighting the desired range.
- Select multiple individual rows by pressing and holding the <Ctrl> key and clicking in the boxes left of the ID column.

Once you've made your selection, press the *Create Export File* button. PressureWEB will export the information in a comma-separated values (CSV) format and display the exported file at the bottom of the browser window. Click on the file name to download it into an Excel spreadsheet (which is the default application for browsers on Windows operating systems).

**PressureWEB Data Export
Device Data for SNCZEAST**

ID	Pipe	SQL	Device #	Access #	Address	TP	Curr	Tdy	Wk-1	Alarm	In
1	A	74	007	001-07	MH1081 41ST AV	UP	9.5	9.5	9.5		
2	A	74	009	001-09	MH1081 41ST AV	UP	5.0	5.0	4.5	*	3
3	A	74	011	001-11	MH1081 41ST AV	UP	9.5	9.5	9.5		
4	A	74	013	001-13	MH1081 41ST AV	UP	7.0	6.5	6.5		
5	A	74	121	004-13	C.O. PIPE PANEL, 41ST/FREEWAY	SF	33.6	37.2	36.8		
6	A	74	147	005-03	P1935 41ST AV	AP	3.0	2.0	2.0		
7	A	74	150	005-06	MH1102 41ST/GROSS	MF	38.2	40.9	41.0	---	41
8	A	74	151	005-07	MH1111 41ST AV	EP	7.5	7.5	7.5		
9	B	83	016	001-16	MH471 SOQUEL AV	UP	3.5	3.5	3.5	*	32
10	B	83	017	001-17	MH471 SOQUEL AV	UP	5.0	5.0	5.5	*	10
11	B	83	018	001-18	MH471 SOQUEL AV	UP	2.5	2.5	2.5	*	41
12	B	83	019	001-19	MH471 SOQUEL AV	UP	5.5	5.5	5.5		
13	B	83	020	001-20	MH471 SOQUEL AV	UP	5.0	5.0	5.0	*	41
14	B	83	026	001-26	MH54 PORTER ST, SOQUEL	UP	7.5	7.0	7.0		
15	B	83	033	001-33	MH483 SOQUEL DR	UP	6.0	6.0	6.0		
16	B	83	034	001-34	MH483 SOQUEL DR	UP	7.0	7.0	7.0		
17	B	83	036	001-36	MH483 SOQUEL DR	UP	6.5	6.5	6.5		
18	B	83	041	002-05	MH511 SOQUEL DR	UP	6.5	6.5	6.2		
19	B	83	042	002-06	MH511 SOQUEL DR	UP	8.0	8.0	7.9		
20	B	83	045	002-09	MH511 SOQUEL DR	UP	8.0	8.0	8.5		
21	B	83	046	002-10	MH1065 SOQUEL DR	UP	8.0	8.5	8.2		
22	B	83	047	002-11	MH1065 SOQUEL DR	UP	8.5	8.5	8.3		
23	B	83	122	004-14	C.O. PIPE PNL, SOQUEL TO APTOS	SF	64.9	62.6	62.9		
24	B	83	131	004-23	MH1111 41ST AV	MF	14.4	15.4	15.3	R	41
25	B	83	132	004-24	MH851 SOQUEL DR	MF	16.1	15.9	15.8	R	88
26	B	83	133	004-25	MH492 SOQUEL DR	MF	19.0	19.0	19.0	*	88
27	B	83	134	004-26	MH1068 SOQUEL DR	MF	0.8	0.5	2.0		
28	B	83	148	005-04	MH370 SOQUEL DR	MF	19.0	19.0	19.0	*	Top

Select All Clear Selections Create Export File

EXAMPLE 46: PRESSUREWEB DATA EXPORT UTILITY

PressureWEB 3.2 Capabilities Overview

Hopefully, the explanations and screen samples in this document have provided you with a good starting point as you begin to work with PressureWEB. You will find that the program is intuitive, can be navigated easily, and provides helpful information along the way. For example, to learn more about the contents of a particular display or report, just click on the underlined column headings. To understand the significance of a colored background, click on the *Legend* link located on the top right of the browser display.

If you have specific questions about PressureWEB's functionality, how to customize it for your specific use, or maximize its full potential, give one of our Technical Support specialists a call. They're available to provide whatever level of help you need.

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