POINT SIX WIRELESS

Point View® Feature Guide

POINT VIEW

REAL-TIME DATA REPORTING

Point View® is a cloud based package that allows you to easily monitor, manage and report one or an enterprise of Point Sensors with easy accessibility using your PC, tablet or phone.

FEATURES

- Summary view of sensors showing last reading, age of the reading and alarm states
- Graphical view of collected data showing data history, statistics and annotations in the graph showing when alarms occurred. Can zoom and pan to get a closer view of the data. Plot more than one sensor in the same graph for comparison.
- On demand reports: current sensor status, sensor details, event, alarm and alarm acknowledgment log.
- Scheduled automated reports sent daily, weekly, bi-weekly or monthly via email. Can select what reports you want included in the email.
- Alarm Processing
  - Send alarms via email and text
  - Note and view user alarm acknowledgements and comments in an alarm acknowledgement log.
  - Escalate alarms to supervisors if first level user does not acknowledge alarms. (5 levels of escalation)
- Hierarchical grouping to organize sensors and users
  - Organize your sensors in hierarchical groupings based on your company's organization, geography, physical installation or based on function.
  - Organize users' view of the sensors in hierarchical groups based on your company's organization, geography, physical installation or based on function. Limit users' scope of view based on where in the grouping tree they are assigned.
- Control users' rights to make changes with a "view-only" or "administrator" privileges.
- Manage sensor behaviors which include naming of sensor and channels, transmit time, log time, and setting of channels alarms.
- Add additional functionality for particular sensors:
  - Humidity Sensors – compute dew point as 3rd channel
  - Counter Temperature Sensors – compute a rate of usage using the change in counts (used in metering applications).
- Sensor Utility that provides a wizard that guides you step by step for installing and registering sensors.

FEATURE DETAILS

Summary View

Summary View is a dashboard view of the state of the sensors in the system. The age and status is displayed along with the data values. Sensor alarm states are displayed as icons. A green check mark means the sensor status is good. *Point View* will display unique icons for online/offline, low battery, no line power, configuration pending, channel alarms and if the sensor service button has been pressed. The view is updated every 12 seconds.

Sensor Name ▲ ▼	Channel Name	Value	Unit	Age ▲ ▼	Status ▲ ▼
Chamber Monitor	Temperature	84.1	°F	2.5 Mins	✔
	Humidity	23	% RH		
IT ROOM (900 V6)	Temperature	76.8	°F	9.0 Mins	✔
Office CO2	Temperature	74.6	°F	14.7 Mins	✔
	CO2	1249	ppm CO2		

Data View

Point View provides a graphical view into the history of the sensor readings. *Point View* provides statistics over the selected time range showing the latest, highest, lowest and average value. The channel values are plotted as lines over the selected time range. You can zoom and pan in the graph to get a closer look of the data. *Point View* will show the readings and a timestamp of the line point at the bottom of the graph when you mouse over the line. The events that occurred over the time range is shown at the bottom of the page. *Point View* annotates the graph with the channel events that have occurred. The user can select from a list of latest time ranges (12 to 72 hours) or can specify a custom time range. The graph data can be exported to a CSV file.

Reporting

On Demand

Sensor Status Report – shows the detailed current status of the sensor. Report gives the online state, current channel values, alarm state, last contact, battery life, estimated battery expiration, how the sensor is being powered, if a configuration is pending, remotely or locally configured, and last configuration time.

Name ▲	Online	Value(s)	In Alarm?	Last Contact	Battery Life (%)	Estimated Batt Expire	Power	Config Pending?	Config Type	Config Time
				Central.Office						
Chamber Monitor	Y	-41.0	11	N	04/02/2015 17:31:44	98	06/07/2016	Battery	N	Remote 04/01/2015
IT ROOM (900 V6)	Y	25.3	N	04/02/2015 17:22:49	72	08/27/2017	Battery	N	Remote 11/07/2014
Office CO2	Y	24.6	1341	Y	04/02/2015 17:25:46	99	03/20/2021	Battery	N	Remote 03/31/2015

Sensor Detail Report – shows the static attributes of each sensor. The report gives serial number, MAC address, firmware version, when the sensor was registered, and how data arrived.

Name ▲	Serial Number	MAC Address	Firmware	Added At	Live At	Data Logger	Origin
			Central.Office				
Chamber Monitor	F8E0D1E0	00:06:66:13:16:D7	FA0041AF	01/28/2015	01/28/2015	Y	Wifi Sensor
IT ROOM (900 V6)	344066E2	00:90:C2:E7:82:0C	D01711AF	06/12/2014	06/12/2014	Y	Link Manager
Office CO2	00403AE2	00:06:66:52:F9:BD	D01A30AF	05/29/2014	05/29/2014	Y	Wifi Sensor

Sensor Event Report – shows the history of sensor events for the system. The user can customize their search of the event history via groups, specific sensors and time ranges.

Sensor	Event Date ▼	Event	Channel Name	Value
Chamber Monitor	04/02/2015 17:26:43	Ch1 Low Exit	Temperature	-42.4 °C
Chamber Monitor	04/02/2015 17:23:15	Ch1 Low	Temperature	-43.7 °C
Office CO2	04/02/2015 16:04:31	Ch2 High	CO2	1312 ppm CO2
IT ROOM (900 V6)	04/02/2015 03:31:31	Online		
IT ROOM (900 V6)	04/02/2015 03:19:27	Offline		
Office CO2	04/01/2015 18:46:08	Ch2 High Exit	CO2	1297 ppm CO2
Office CO2	04/01/2015 18:31:32	Ch2 High	CO2	1309 ppm CO2
Chamber Monitor	04/01/2015 07:21:12	Remotely Configured		

Alarm Ack Report – shows the history of alarms received for the system. Alarms are events but are sent to users through email and text message. When a user receives an alarm via email, the email contains a link to the Alarm Ack Report. The user then acknowledges the alarm and then logs a comment detailing the actions taken to resolve the alarm. *Point View* has links in the Alarm Ack Report to view the history of the alarm acknowledgement and the service of the alarm (from triggered to resolved).

Export – Each report can be exported to Word, PDF and CSV.

Automated

Point View will generate reports in pdf files and send them to users through email based on a selected schedule of daily, weekly, bi-weekly and monthly. The user can select specific reports to be included in the email: summary report, sensors in a state of concern, sensor data metrics, sensor alarms, sensor channel values, sensor events and alarms not resolved.

Alarming
Email and Text Message

```
"Office CO2" IO Alarm: "CO2" - Ch2 High
@ 1340 ppm CO2 4/7/2015 13:26:48 (TZ -5
```

Point View will send out to users emails and text messages when events are received from the sensor or generated by *Point View*. Users can choose what types of events to alarm on.

Alarm Acknowledgements and Log

Name ▲	Online	Value(s)	In Alarm?	Last Contact	Battery Life (%)	Estimated Batt Expire	Power	Config Pending?	Config Type	Config Time
				Central.Office						
Chamber Monitor	Y	-41.0 | 11 |	N	04/02/2015 17:31:44	98	06/07/2016	Battery	N	Remote	04/01/2015
IT ROOM (900 V6)	Y	25.3	N	04/02/2015 17:22:49	72	08/27/2017	Battery	N	Remote	11/07/2014
Office CO2	Y	24.6 | 1341	Y	04/02/2015 17:25:46	99	03/20/2021	Battery	N	Remote	03/31/2015

Received alarms can be acknowledged by the user by going to the Alarm Ack Report and by selecting an alarm status and logging any comments about the alarm.

Escalation of Alarms

In combination with the Alarm Acknowledgement mechanism, *Point View* provides a management function to let supervisors know that an alarm is not being attended to. If an alarm has not been acknowledged, *Point View* will then send out an email to a list Escalation users, to let supervisors know that the alarm has not been attended to. *Point View* has 5 levels of escalation where users are specified at each level. The amount of time from when the original alarm is sent to when the escalation email message is sent is configurable as well as the time between the 5 levels of escalation.

Organizing Sensors and Users by Groups

Groups can be used to organize sensors and also control visibility of sensors by Users. Groups can be organized in a hierarchy based on your company's organization or based on function. There is a lot of flexibility to how you can organize your groups. You can also use groups to control the visibility of sensors by users in the system.

Sensor Management

Sensor Behavior

The user can make changes to the sensor setup and then have *Point View* push the setup to the sensor when the sensor reports in next. The user can name the sensor and channels and set the report-in and log periods and sensor alarms such as offline time and low battery. The user can also configure channel alarms for sensors.

Sensor Advanced Function

Humidity Sensor – when enabled, *Point View* will calculate the dew point for every humidity/temperature point collected. The dew point is stored and shown as a third sensor channel.

Counter Temperature Sensors – when enabled, *Point View* will calculate a rate of change based on the change of counts using the counter channel. *Point View* then shows the calculated rate in place of the counter channel. The user can configure the time base and a scale for the derived rate channel. Counter Temperature sensors can then be used in pulse metering applications and *Point View* translates the count of pulses to a rate of usage. (example: water and electric meters).

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Registering and Installing Sensors

Sensors can easily be registered using the *Point View* Sensor Utility Wizard. The *Point View* Sensor Utility Wizard walks you through step by step in the process of configuring the sensor for your wireless network, registering the sensor with *Point View* and confirming the sensor operation.

User Management

User Privileges

Point View has two privilege levels for users to control access to *Point View*: Administrator and View Only. Administrators have access to all reports, data views and configuration pages. View Only has access only to reports and data views. They cannot make any changes to the sensor configuration settings or user preferences. Any changes must be made by the Administrator. A company can have any number of Administrators and View Only users they wish.

Limiting User's View

A user's scope of the view is based on where they are assigned in the grouping tree. When a user is assigned to a branch in the tree, the user can view the branch and all sub-branches. Example: a user can be assigned to a branch that represents a store. This user can look at departments within the store (sub-branches) but cannot view other stores.

HOSTING OPTIONS

Point View Subscription

For a modest fee per sensor, you can subscribe to the instance of *Point View* on the cloud.

Dedicated Hosting

Point Six Wireless will host a customized version of *Point View* on the cloud for you.

Host at Customer Site

Point Six Wireless will install a *Point View* customized instance at your site.

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