



## **Cypress Envirosystems Web Application Version 04.00.0**

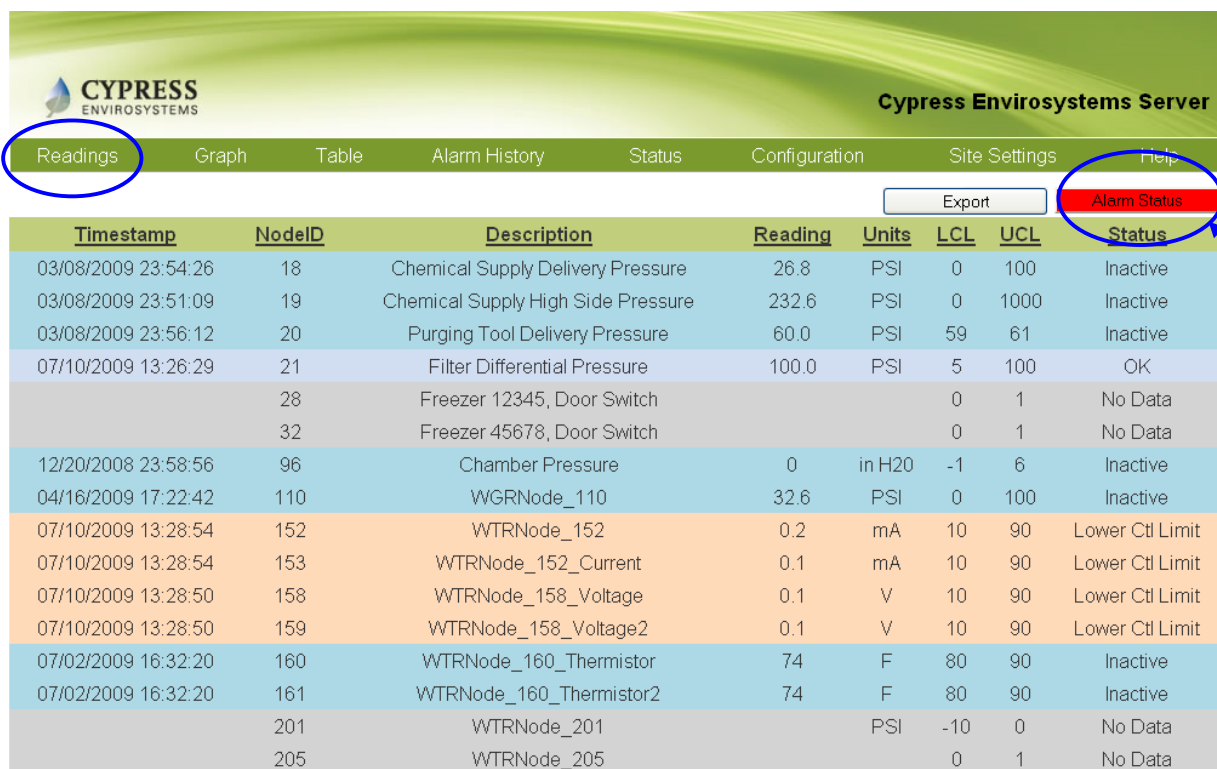
Welcome to the Cypress Envirosystems Web Application. From this application the user can monitor, configure, add and delete nodes in addition to seeing all data sent from Cypress Envirosystems field devices, including the:

- WGR (Wireless Gauge Reader)
- WTR (Wireless Transducer Reader)
- WSTM (Wireless Steam Trap Monitor)
- WFM (Wireless Freezer Monitor)
- WBM (Wireless Battery Monitor)

Once the user has accessed the application, the main page is displayed, as shown in Figure 1.

The menu tabs across the top of the page give the user access to the various capabilities, such as: Readings, Graph, Table, Alarm History, Status, Configuration, Site Settings, and Help.

Additionally, Alarm Status is available from any page by selecting the Alarm Status button from the Readings page. From there the user can also reset the Alarms.



Timestamp	NodeID	Description	Reading	Units	LCL	UCL	Status
03/08/2009 23:54:26	18	Chemical Supply Delivery Pressure	26.8	PSI	0	100	Inactive
03/08/2009 23:51:09	19	Chemical Supply High Side Pressure	232.6	PSI	0	1000	Inactive
03/08/2009 23:56:12	20	Purging Tool Delivery Pressure	60.0	PSI	59	61	Inactive
07/10/2009 13:26:29	21	Filter Differential Pressure	100.0	PSI	5	100	OK
	28	Freezer 12345, Door Switch			0	1	No Data
	32	Freezer 45678, Door Switch			0	1	No Data
12/20/2008 23:58:56	96	Chamber Pressure	0	in H2O	-1	6	Inactive
04/16/2009 17:22:42	110	WGRNode_110	32.6	PSI	0	100	Inactive
07/10/2009 13:28:54	152	WTRNode_152	0.2	mA	10	90	Lower Ctl Limit
07/10/2009 13:28:54	153	WTRNode_152_Current	0.1	mA	10	90	Lower Ctl Limit
07/10/2009 13:28:50	158	WTRNode_158_Voltage	0.1	V	10	90	Lower Ctl Limit
07/10/2009 13:28:50	159	WTRNode_158_Voltage2	0.1	V	10	90	Lower Ctl Limit
07/02/2009 16:32:20	160	WTRNode_160_Thermistor	74	F	80	90	Inactive
07/02/2009 16:32:20	161	WTRNode_160_Thermistor2	74	F	80	90	Inactive
	201	WTRNode_201		PSI	-10	0	No Data
	205	WTRNode_205			0	1	No Data

**Figure 1. Default Main Page**

## Readings


Figure 1 represents the default main page designed to summarize the latest reading of all WGR/WTR nodes. Readings are based on a percentage of full scale determined from the “Min” and “Max” on the Node Configuration page. If the “Min” and “Max” are not set up correctly, the “Reading” value may be incorrect.

If a node is set up as a binary node, the “Reading” column will display “Off”, “False” or “Inactive” if the reading value is 0, and “On”, “True” or “Active” if the reading value is greater than 0.

If a node reading exceeds the user specified limit, the Alarm Status button at the top right area of the screen will turn Red. Individual nodes may have a different status based on the reading values.

The Export button on the Readings page also allows the user to export the data on the current page to an MS Excel file.

Readings pages are available for each type of Cypress EnviroSystems field device the user has installed. These pages are accessible through the dropdown menu under the Readings tab and are organized as: WGR/WTR, WFM, WSTM, and WBM. Sample Readings pages for the WFM, WSTM and WBM are shown in Figure 2,3 and 4.



Cypress Envirosystems Server

Readings

Graph

Table

Alarm History

Status

Configuration

Site Settings


Help

Export

Alarm Status

Timestamp	NodeID	Description	LowStageCurrent	HighStageCurrent	Temperature	DoorSwitch
03/08/2009 23:59:29	25	Freezer 12345	3.34 -Inactive	3.02 -Inactive	-78.8 -Inactive	CLOSE
03/08/2009 23:58:56	29	Freezer 45678	2.86 -Inactive	3.91 -Inactive	-74.8 -Inactive	CLOSE
	100	WFM_100				
07/10/2009 13:33:35	162	Freezer 67890	2.05 -OK	0.25 -OK	24.2 -Upper Ctl Limit	CLOSE
	202	WFM_202				

Figure 2. Readings Page for WFM

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Readings

Graph

Table

Alarm History

Status

Configuration

Site Settings


Help

Export

Alarm Status

<u>Timestamp</u>	<u>NodeID</u>	<u>Description</u>	<u>InletTemp(C)</u>	<u>OutletTemp(C)</u>	<u>DeltaTemp(C)</u>
03/08/2009 23:48:49	1	Steam Trap 1	156.7 -Inactive	120.0 -Inactive	36.8 -Inactive
03/08/2009 23:53:14	4	Steam Trap 2	143.0 -Inactive	97.8 -Inactive	45.2 -Inactive
03/08/2009 23:59:22	7	Steam Trap 3	146.4 -Inactive	96.3 -Inactive	50.1 -Inactive
07/10/2009 13:34:47	154	WSTM_154	20.7 -OK	21.3 -OK	0.6 -Lower Ctl Limit
	206	WSTM_206			

Figure 3. Readings Page for WSTM



Cypress Envirosystems Server

Readings

Graph

Table

Alarm History

Status

Configuration

Site Settings

Help

UPS

ALL

BANK

ALL

BATTERY

ALL

BATT1

BATT2

BATT3

Display

Alarm Status

Export

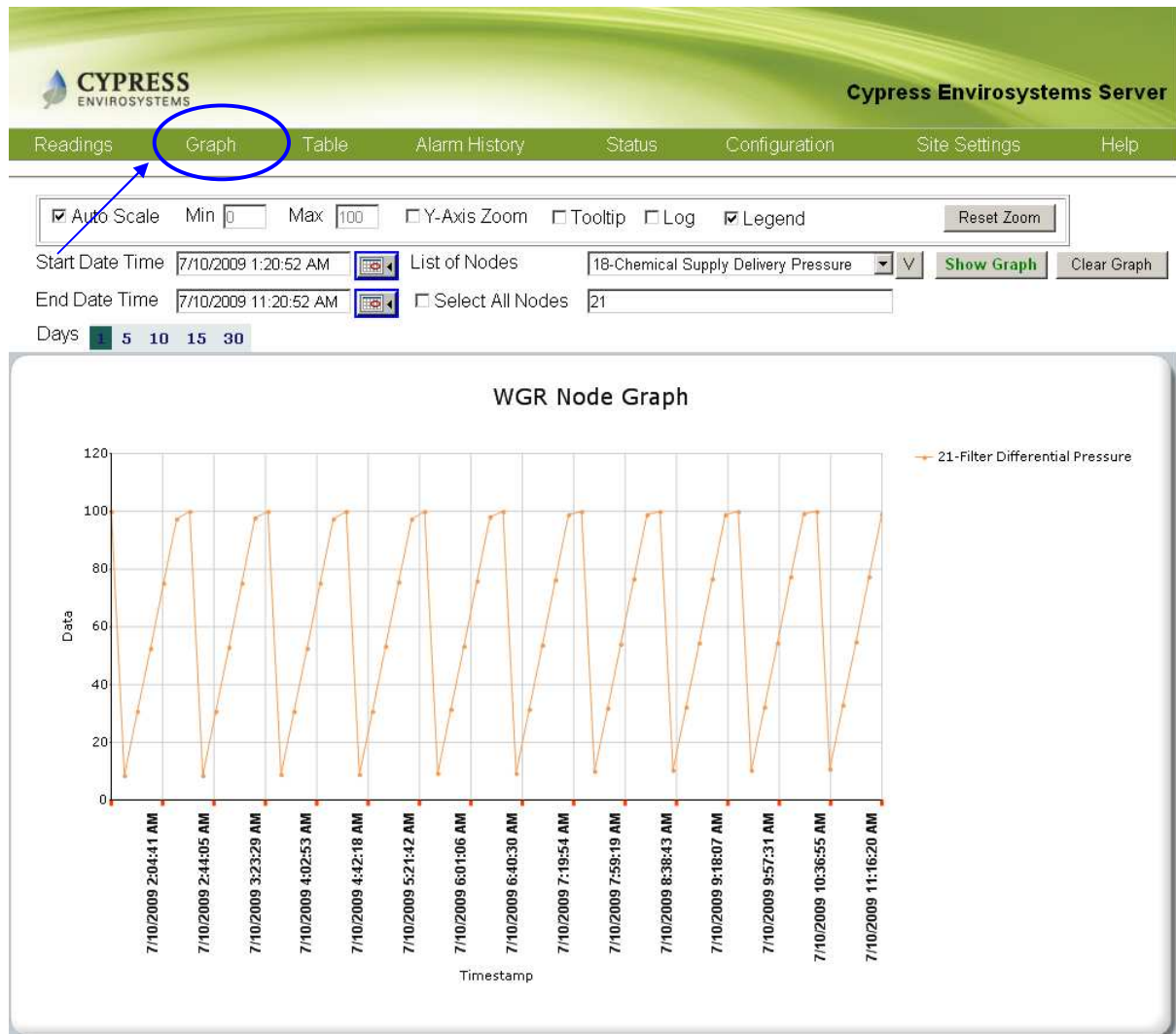
TimeStamp	NodeID	Description	Voltage(mV)	Temperature(C)	Resistance(mOhms)
05/31/2009 23:45:39	1453	UPS4_BANK1_BATT4	13,712 -Inactive	24 -Inactive	7 -Inactive
05/31/2009 23:02:53	1449	UPS4_BANK1_BATT3	13,721 -Inactive	24 -Inactive	8 -Inactive
05/31/2009 23:06:54	1445	UPS4_BANK1_BATT2	13,672 -Inactive	24 -Inactive	8 -Inactive
05/31/2009 23:43:44	1441	UPS4_BANK1_BATT1	13,707 -Inactive	24 -Inactive	8 -Inactive
07/10/2009 13:53:59	14	UPS1_Bank1_Battery2	6,379 -Upper Ctl Limit	22 -OK	3 -Lower Ctl Limit
07/10/2009 13:56:17	10	UPS1_Bank1_Battery1	6,385 -Upper Ctl Limit	22 -OK	3 -Lower Ctl Limit

Figure 4. Readings Page for WBM

## Status Column Detail

Error	Reported by WGR. Row is highlighted in red
Verify	<p>If Node readings have not changed in past 2 days the row is highlighted in yellow.</p> <p>By default this feature is disabled. To enable this feature contact Cypress Envirosystems field service group by sending an email to <a href="mailto:cys_support@cypress.com">cys_support@cypress.com</a></p>
Upper Ctr Limit (UCL)	If the reading for the UCL limit exceeds the limit for the node set by the user, the row is highlighted in orange
Lower Ctr Limit (LCL)	If the reading for the UCL drops below the limit for the node set by the user, the row is highlighted in orange
Low Battery	This status will show if a batteries are low. Please contact <a href="mailto:cys_support@cypress.com">cys_support@cypress.com</a> to schedule battery replacements. Row will be highlighted in Yellow.
No Data	This status is displayed if a Field Device has been configured on the BBS, but no data has ever been sent from that field device. The Row will be highlighted in gray.
OK	This is the default status of the Node. The row is not highlighted
Inactive	This status is displayed if a field device has stopped sending data to the BBS. Row will be highlighted in blue.

## Graph



**Figure 5. Graph Page**

Figure 5 is an example of node data displayed in graphical format. Here users can view node data between a defined “Start Date” and “End Date”. The date format is both date and time expressed as “m/dd/yyyy hh:mm:ss: AM or PM”.

The user specifies which node ID(s) to be displayed. The user can select any node from the dropdown list or enter node ID(s) in the text field under the dropdown (e.g. 1 or 1,2,5,9 or 1-5,9,20), or check “Select All Nodes” to load all the node IDs into the text field. To display the graph, click “Show Graph”.

Graphing options include:

Auto Scale	The graph will automatically scale based on node values. This is the default scale. To turn off auto scale, uncheck the checkbox, and the “Min” and “Max” fields will be enabled.
Min	If auto scale is turned off, the user must specify the minimum Y value on the graph.
Max	If the auto scale is turned off, the user must specify the maximum Y value on the graph.
Y-Axis Zoom	Allows the user to zoom into data on both the x and y axis. By default all zooming occurs only on the x axis
Tooltip	This allows the user to see the actual reading value on the graph by hovering the mouse pointer over a point on the graph.
Log	The user can check this box to display the Y-axis on a logarithmic scale.
Legend	The user can check this box to display the legend for the nodes.
Reset Zoom	This button resets the graph back to the default view (no zoom).
Show Graph	If graphing parameters have changed, the user may click the “Show Graph” button for the changes to take effect on the graph.
Clear Graph	The user can clear the current graph parameters and enter new parameters and nodes by clicking the “Clear Graph” button.
Days	Pre-programmed durations of the last 1, 5, 10, 15 or 30 days can be graphed by pressing the corresponding button. This prevents the user from having to manually enter start and end dates.

When graphing multiple nodes, nodes will be listed from highest reading value to lowest readings value in the legend. To improve graphing performance, values may be removed for very large sets of data e.g. several months worth of data. To ensure all points are graphed, the user may need to adjust the Start Date and End Date. To zoom into data on the graph, using the mouse pointer, left click and drag the desired zooming area. By default, zooming occurs in the x direction only. To zoom in on the y axis as well, the user must check the “Y-Axis Zoom” button.

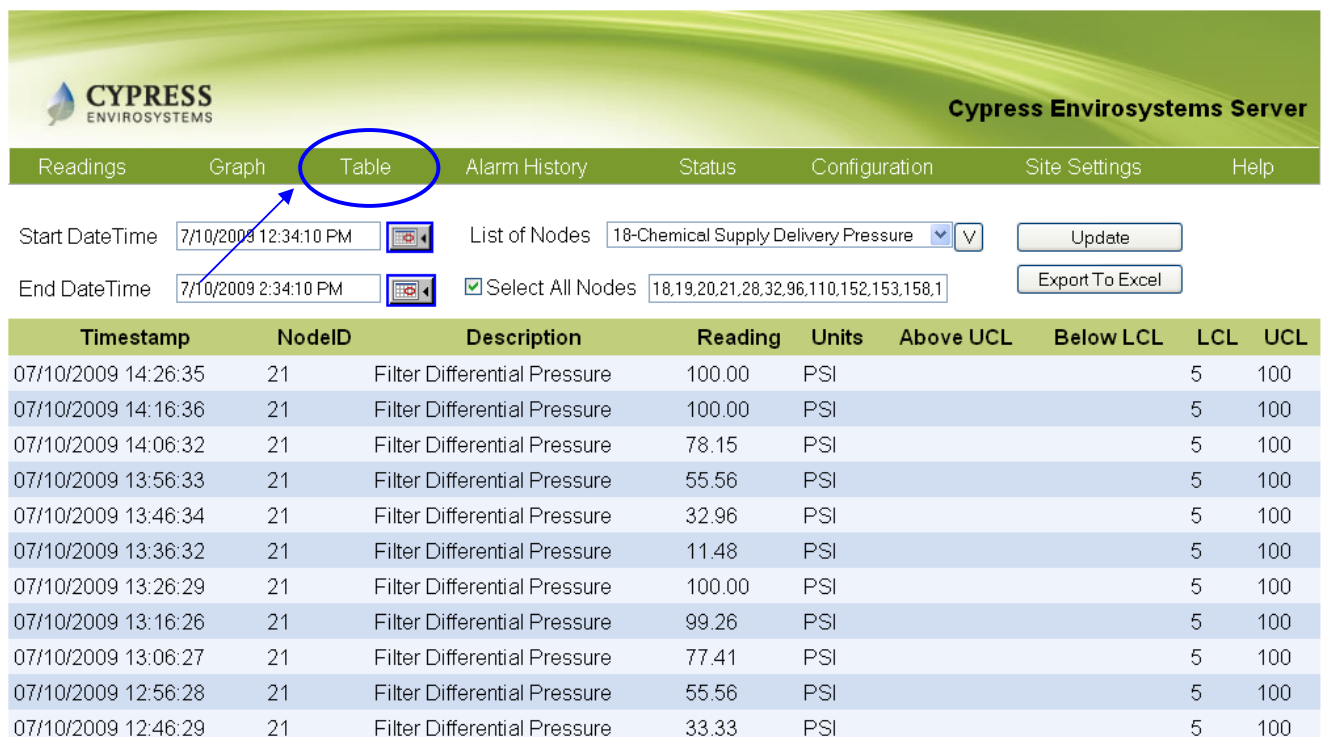
Graph pages are available for each type of Cypress Envirosystems field device the user has installed. These pages are accessible through the dropdown menu under the Graph tab and are organized as: WGR/WTR, WFM, WSTM and WBM.

## Table

Figure 6 shows node data in table format. The following parameters are listed:

- Timestamp: Timestamp of data reading
- Node ID: The unique ID number of the node
- Description: The name of the node
- Reading: The value read by the field device.
- Units: The units of the gauge (e.g. PSI)
- Above UCL: Indicates if an over-limit alarm occurred
- Below LCL: Indicates if a below-limit alarm occurred
- LCL: The lower control limit (LCL) value
- UCL: The upper control limit (UCL) value

User can export data using the “Export To Excel” button and opening or saving the file in .xls format.



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Readings Graph **Table** Alarm History Status Configuration Site Settings Help

Start DateTime: 7/10/2009 12:34:10 PM [Calendar Icon] List of Nodes: 18-Chemical Supply Delivery Pressure [Dropdown] [V] [Update]

End DateTime: 7/10/2009 2:34:10 PM [Calendar Icon] ☒ Select All Nodes: 18,19,20,21,28,32,96,110,152,153,158,1 [Export To Excel]

Timestamp	NodeID	Description	Reading	Units	Above UCL	Below LCL	LCL	UCL
07/10/2009 14:26:35	21	Filter Differential Pressure	100.00	PSI			5	100
07/10/2009 14:16:36	21	Filter Differential Pressure	100.00	PSI			5	100
07/10/2009 14:06:32	21	Filter Differential Pressure	78.15	PSI			5	100
07/10/2009 13:56:33	21	Filter Differential Pressure	55.56	PSI			5	100
07/10/2009 13:46:34	21	Filter Differential Pressure	32.96	PSI			5	100
07/10/2009 13:36:32	21	Filter Differential Pressure	11.48	PSI			5	100
07/10/2009 13:26:29	21	Filter Differential Pressure	100.00	PSI			5	100
07/10/2009 13:16:26	21	Filter Differential Pressure	99.26	PSI			5	100
07/10/2009 13:06:27	21	Filter Differential Pressure	77.41	PSI			5	100
07/10/2009 12:56:28	21	Filter Differential Pressure	55.56	PSI			5	100
07/10/2009 12:46:29	21	Filter Differential Pressure	33.33	PSI			5	100

**Figure 6. Table Page**



Table pages are available for each type of Cypress Envirosystems field device the user has installed. These pages are accessible through the dropdown menu under the Table tab and are organized as: WGR/WTR, WFM, WSTM and WBM.

## Alarm History

The user can view all past alarms on the Alarm History page, shown in Figure 7. This page can be accessed by clicking the “Alarm Status” button on any Readings page, or by clicking the “Alarm History” tab in the menu bar.

This page will provide the user with a list of all past alarms for the node(s) specified, within the time specified.

Timestamp	NodeID	Description	MinValue	MaxValue	LCL	UCL	Reading	Units	Above_UCL	Below_LCL	BatteryStatus
07/10/2009 14:28:20	159	WTRNode_158_Voltage2	0	100.2907	10	90	0.05	V	TRUE	100	
07/10/2009 14:28:20	158	WTRNode_158_Voltage	0	100.2907	10	90	0.07	V	TRUE	100	
07/10/2009 14:13:37	153	WTRNode_152_Current	0	100	10	90	0.12	mA	TRUE	100	
07/10/2009 14:13:37	152	WTRNode_152	0	100	10	90	0.17	mA	TRUE	100	
07/10/2009 13:58:35	159	WTRNode_158_Voltage2	0	100.2907	10	90	0.04	V	TRUE	100	
07/10/2009 13:58:35	158	WTRNode_158_Voltage	0	100.2907	10	90	0.06	V	TRUE	100	
07/10/2009 13:43:48	153	WTRNode_152_Current	0	100	10	90	0.12	mA	TRUE	100	
07/10/2009 13:43:48	152	WTRNode_152	0	100	10	90	0.17	mA	TRUE	100	
07/10/2009 13:28:50	159	WTRNode_158_Voltage2	0	100.2907	10	90	0.06	V	TRUE	100	
07/10/2009 13:28:50	158	WTRNode_158_Voltage	0	100.2907	10	90	0.06	V	TRUE	100	

**Figure 7. Alarm History Page**

## **Alarm Notification**

If a node has exceeded a configured alarm limit and the alarm function has been enabled for the node, then a notification message will be sent via SMS text message or email to the configured recipients. This alarm message will only be sent one time, and



subsequent alarms for the alarm limit will not trigger additional messages until the alarm has been reset by the user.

## Alarm Reset

To reset an active alarm, click the “Alarm Reset” button on the “Alarm History” page. This will take the user to the Alarm Reset page, shown in Figure 8. The user can either click “Reset All” to reset all active alarms, or find the individual node alarm and click the associated “Reset” button.



Reset	NodeID	Description	MinValue	MaxValue	LCL	UCL	LCLTripped	UCLTripped	AlarmControlLimit
<a href="#">Reset</a>	1	Steam Trap 1	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	2	Steam Trap 1	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	3	Steam Trap 1	0	0	42	55	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	4	Steam Trap 2	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	5	Steam Trap 2	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	6	Steam Trap 2	0	0	42	55	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	7	Steam Trap 3	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	8	Steam Trap 3	0	0	0	300	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	9	Steam Trap 3	0	0	42	55	<input checked="" type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	18	Chemical Supply Delivery Pressure	0	100	0	100	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	19	Chemical Supply High Side Pressure	0	1000	0	1000	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	20	Purging Tool Delivery Pressure	0	160	59	61	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	21	Filter Differential Pressure	0	100	5	100	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	0
<a href="#">Reset</a>	25	Freezer 12345	0	4	10	90	<input type="checkbox"/>	<input type="checkbox"/>	0
<a href="#">Reset</a>	26	Freezer 12345, High Stage Compressor Current	0	4	10	90	<input type="checkbox"/>	<input type="checkbox"/>	0

**Figure 8. Alarm Reset Page**

## Status

This read-only screen, shown in Figure 9, displays the status conditions of nodes configured on this server, including battery status and wireless signal strength (RSSI value). Nodes that do not use batteries will also be displayed showing a battery status, but this value can be ignored.



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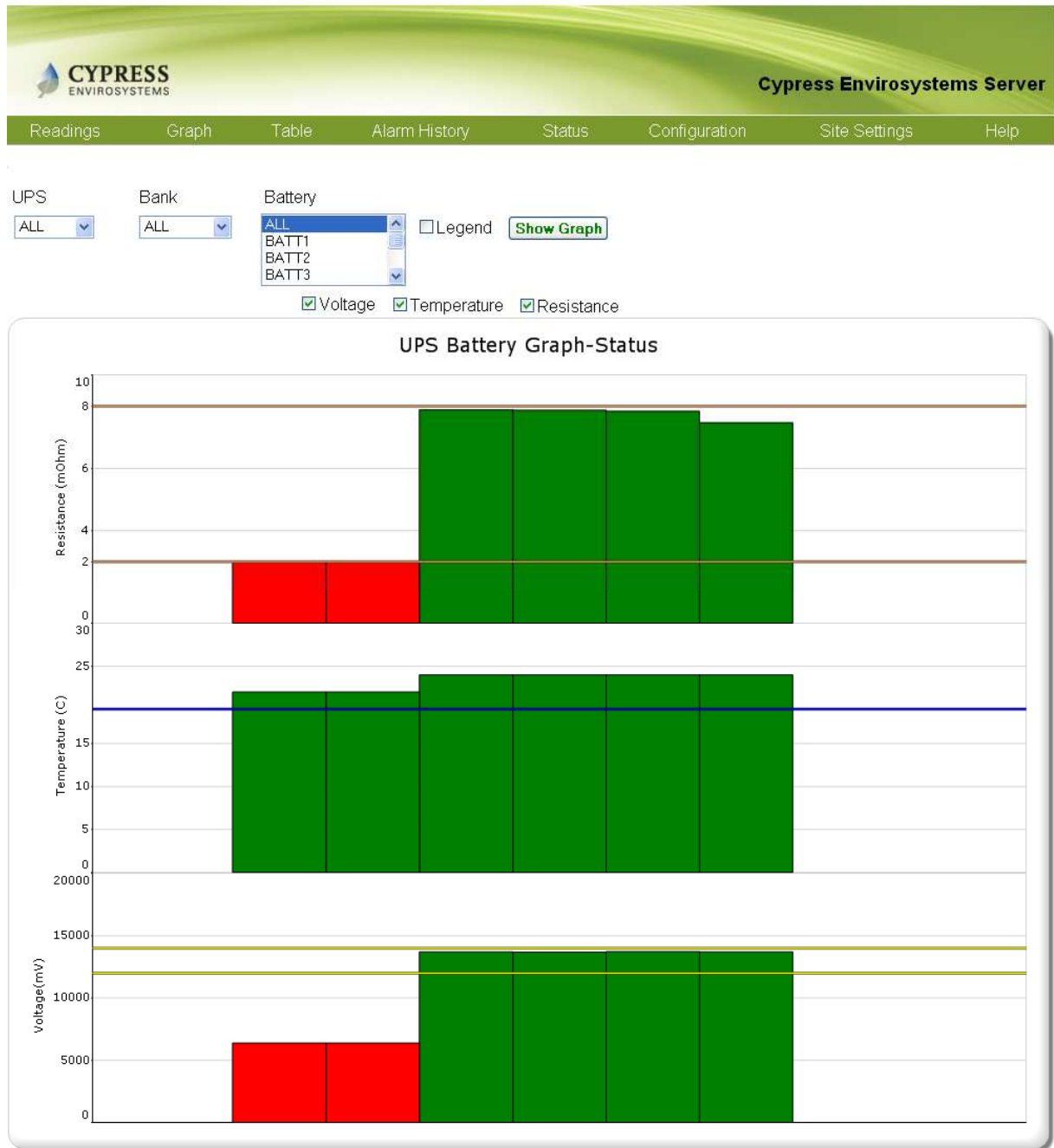
Cypress Envirosystems Server

Readings	Graph	Table	Alarm History	Status	Configuration	Site Settings	Help
Timestamp	NodeID	Description	BatteryStatus(%)	RSSI			
7/10/2009 2:26:35 PM	21	Filter Differential Pressure	100	31			
7/10/2009 2:43:26 PM	152	WTRNode_152	100	23			
7/10/2009 2:43:26 PM	153	WTRNode_152_Current	100	23			
7/10/2009 2:44:19 PM	154	WSTM_154	100	24			
7/10/2009 2:28:20 PM	158	WTRNode_158_Voltage	100	31			
7/10/2009 2:28:20 PM	159	WTRNode_158_Voltage2	100	31			
7/2/2009 4:27:22 PM	160	WTRNode_160_Thermistor	100	23			
7/2/2009 4:27:22 PM	161	WTRNode_160_Thermistor2	100	23			
7/10/2009 2:43:17 PM	162	Freezer 67890	100	31			

**Figure 9. Battery and Signal Strength Status Page**

## WBM Status

If WBMs are installed, this read-only screen, shown in Figure 10, will display the status conditions of UPS nodes configured on this server and can be used to view the latest status of UPS Node. This page displays Voltage, Temperature, Resistance for UPS Nodes. The user can select the Nodes using the filter at the top of the page, then selecting the “Show Graph” button. Check the “Legend” checkbox to show the legend for the UPS nodes displayed.

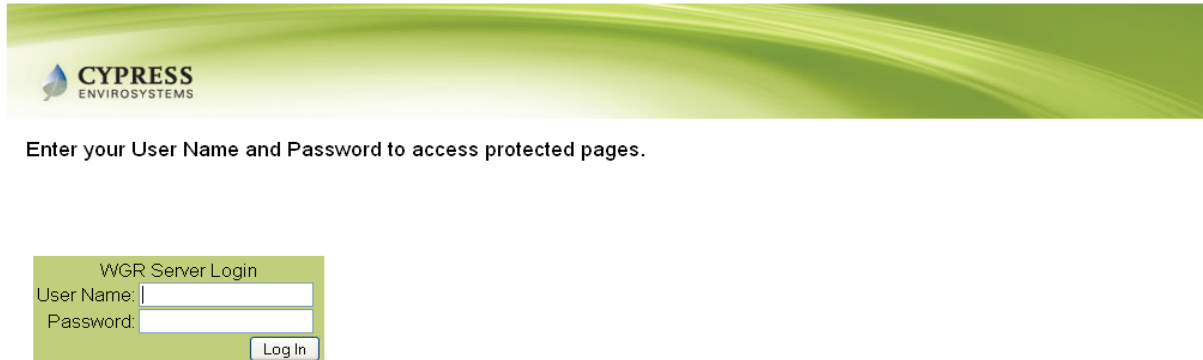


**Figure 10. WBM Status Page**

## **Configuration**

The Configuration page is password protected to limit uncontrolled modifications to the system. In order to access the Configuration page, the user must first login to the

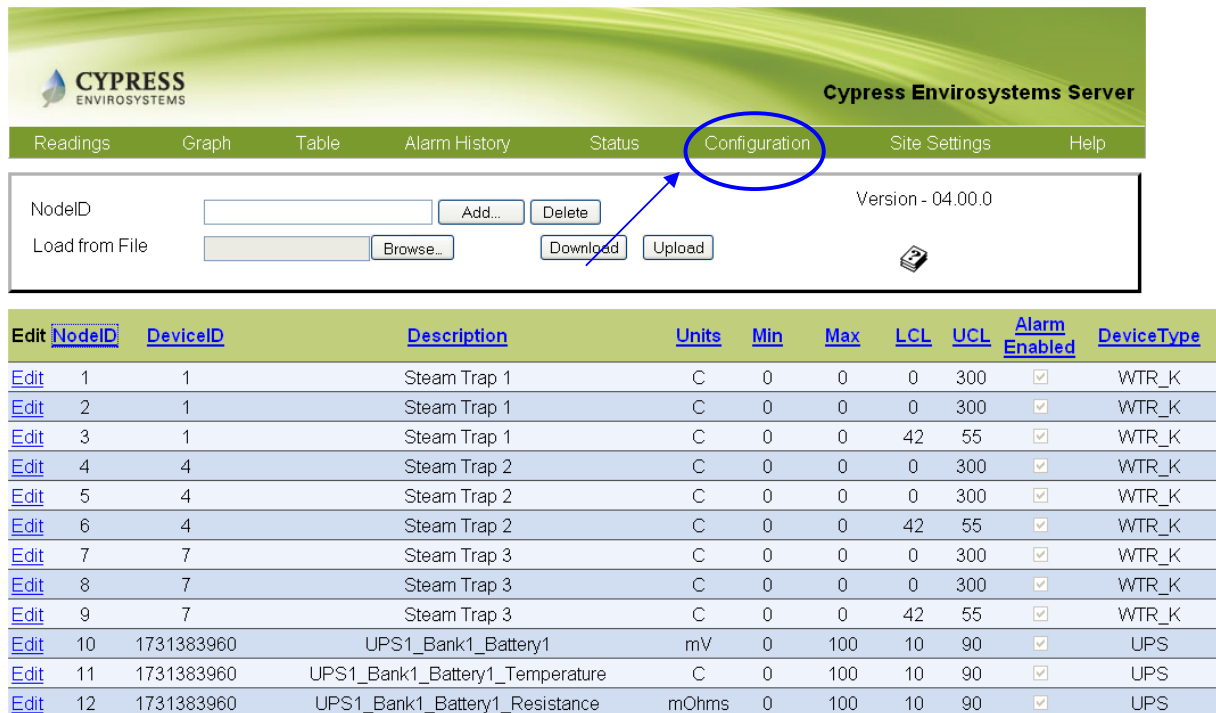
system. The user must have Admin rights in order to access the Configuration page. The login page is shown in Figure 11.



The login page features a green header with the Cypress EnviroSystems logo. Below the header, a message reads: "Enter your User Name and Password to access protected pages." The main login area is titled "WGR Server Login" and contains two input fields: "User Name:" and "Password:". A "Log In" button is positioned to the right of the password field.

**Figure 11. Configuration Login Page**

Once the user has successfully logged into the Configuration page, all the configured nodes will be displayed, as shown in Figure 12.



The configuration page has a green header with the Cypress EnviroSystems logo and the text "Cypress EnviroSystems Server". Below the header is a navigation bar with tabs: Readings, Graph, Table, Alarm History, Status, Configuration (highlighted with a blue circle and an arrow), Site Settings, and Help. Below the navigation bar is a section with input fields for "NodeID" and "Load from File", and buttons for "Add...", "Delete", "Browse...", "Download", and "Upload". The "Version - 04.00.0" is displayed on the right. Below this section is a table with 12 rows of data, each representing a configured node.

Edit	NodeID	DeviceID	Description	Units	Min	Max	LCL	UCL	Alarm Enabled	DeviceType
<a href="#">Edit</a>	1	1	Steam Trap 1	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	2	1	Steam Trap 1	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	3	1	Steam Trap 1	C	0	0	42	55	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	4	4	Steam Trap 2	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	5	4	Steam Trap 2	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	6	4	Steam Trap 2	C	0	0	42	55	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	7	7	Steam Trap 3	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	8	7	Steam Trap 3	C	0	0	0	300	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	9	7	Steam Trap 3	C	0	0	42	55	<input checked="" type="checkbox"/>	WTR_K
<a href="#">Edit</a>	10	1731383960	UPS1_Bank1_Battery1	mV	0	100	10	90	<input checked="" type="checkbox"/>	UPS
<a href="#">Edit</a>	11	1731383960	UPS1_Bank1_Battery1_Temperature	C	0	100	10	90	<input checked="" type="checkbox"/>	UPS
<a href="#">Edit</a>	12	1731383960	UPS1_Bank1_Battery1_Resistance	mOhms	0	100	10	90	<input checked="" type="checkbox"/>	UPS

**Figure 12. Configuration Page**

From this screen, additions and deletions can be done for individual or multiple nodes. Use the box at the top of the Node list to add or delete nodes.

To edit individual node information, locate the node number in the Node ID column and click on “Edit” on the left of the node number to open “Node Configuration Dialog” box, shown in Figure 13.

Click  on the Configuration Page to see the log of changes made.

http://157.95.129.60 - Node Configuration Dialog - Microsoft Internet Explorer

## Node Configuration Dialog

Available Node List  
2555680147 >>

NodeID 1 Device ID 1

Ok  
Close  
Refresh

Name Steam Trap 1

Unit

☒ Units C

☐ Binary 0-TRUE/FALSE

☐ Node Math function

Decimal Precision 1 Update Rate (Sec) 650

☒ Enable Alarm Alarm Excursion # 0

Alarm Thresholds Min 0 Max 300

☐ WGR Configuration Min Max

☐ WBM Configuration Min Max ☐ WBC

☐ One Point Calibration Gain Offset

☒ WTR Configuration ☐ Log Scale Device Type WSTM

☒ Sensor Responsivity Sensor Type Thermocouple Type-K

Volts or mA 1 Value1

Volts or mA 2 Value2

☒ One Point Calibration Value Measured 156.71

Value Desired

Cold Junction 31.1

Check box to set SMS alarms

**Figure 13. Node Configuration Dialog Box**

The Ok button must be clicked to save the newly edited fields. Select the right device type WGR or WTR by selecting appropriate radio button. Close Cancel Button will ignore all the changes made.

### Node Configuration Dialog Box Details

Available Node List	Nodes that can be seen by the BBS but have not been configured.
NodeID	NodeID of the Cypress Envirosystems field device
Device ID	A unique identifier for a WTR device. If the user does not input a value, the default is the NodeID number.
Name	A basic description of the node
Unit	Unit of measurement for each Gauge. The user will either specify the type of measurement such as PSI, H2O, Inch, LBS, or a binary type (TRUE/FALSE, ON/OFF or ACTIVE/INACTIVE). In case of Binary unit type the Unit column display is empty in the Readings page.
Node Detail	If a binary value was used in the "Unit" column, the type of binary is displayed in this column. Additionally, in applications requiring a delta reading between two existing nodes a virtual delta node can be configured. Values for the delta nodes are computed based on the delta logic specified and are updated whenever the existing nodes change.
Node Math function	Select this for the Steam Trap node. Enter Node1 and Node2 that will be used to calculate the reading for new node. E.g. Node3 = Node1-Node2
Precision	Precision is used to set the number of decimal places to display on the readings page. If no precision is used, decimal places will be displayed depending on how large or small the reading value is at the time.
Update Rate	The sample rate (in seconds) of the field device.
Enable Alarm	This field must be checked for the SMS alarm to be activated for the node. If a limit is exceeded, and the SMS Alarm box is checked for the node, an SMS Text message and/or email will be sent to all SMS Alarm recipients.
Alarm Excursion #	This is the number of consecutive times the node data limit has is exceeded before an SMS and/or Email notification is sent. (Only works when SMS Alarm is checked)



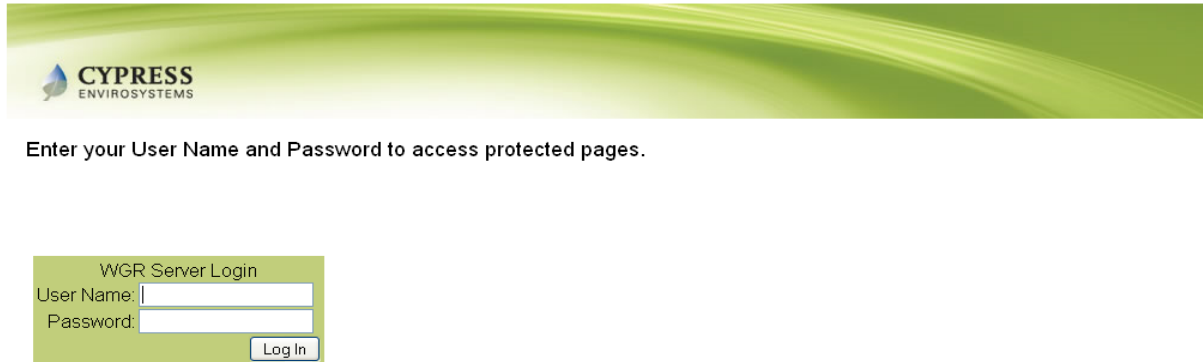
Min Alarm Threshold	This is a specified lowest allowable value. If the node reading drops below this number, an alarm condition is created.
Max Alarm Threshold	This is a specified highest allowable value. If the node reading rises above this number, an alarm condition is created.
WGR Configuration	Select this radio button if configuring a WGR
WGR Configuration - Min	Minimum gauge value for the WGR
WGR Configuration - Max	Maximum gauge value for the WGR
WBM Configuration	Select this radio button if configuring a WBM node
WBM Configuration - Min	Minimum WBM value
WBM Configuration - Max	Maximum WBM value
WBC	Check this box if configuring a Battery Current monitor node
WBM One-Point Calibration	Used to calibrate the WBM Thermocouple
WBM One-Point Calibration Gain	Used to calibrate the WBM Thermocouple
WBM One-Point Calibration Offset	Used to calibrate the WBM Thermocouple
WTR Configuration	Select this radio button if configuring a WTR type node. Use this for WFM and WSTM nodes as well
WTR Configuration – Log Scale	Select this check box if the reading needs to be calculated in Log scale
WTR Device Type	Select the proper WTR type for the device

WTR Sensor Type	<p>Select this to specify the right sensor type. Based on the readings select the sensor type.</p> <p>E.g. in case of Freezer WTR, Reading1 is current sensor1 and sensor type is OPT1-2, Reading2 is current sensor2 and the sensor type is OPT1-2, Reading3 is Thermocouple and sensor type is Thermocouple Type-K, Reading4 is door switch, can be set to OPT1-2. For Binary unit type sensor type is ignored.</p>
Sensor Responsivity - Volts or mA1, Volts or mA2, Value1, Value2	<p>Select this to calculate slope and intercept values in <math>y = mx + B</math></p> <p>Enter these readings for calculating the slope and intercept. This will be used later to calculate the Min and Max values and engineering reading. These can be either noted down from the data sheet or the actual reading from the device.</p> <p>E.g. For WTR type 0-10 V, Volts1 = 0, Volts2 = 10.35, Value1 = 0.0001, Value2 = 1000</p>
WTR One-Point Calibration	<p>Check this box if a 1 point calibration can be done. This is typically used for calibrating thermocouples.</p>
One Point Calibration – Value Measured , Value desired, Cold junction	<p>Use this to apply the offset correction value to the ADC readings.</p> <p>E.g. Temp measured might be 40 C. The user believes the correct temp is 45C. Enter the inputs here to calculate the gain constant (correction factor) that is used internally for the correction</p>
Ok	Save data, but keep window open
Close	Don't save any data, just close dialog
Refresh	Get the latest data from the database

## **Site Settings**

If the user has enabled alarms on configured nodes, the Site Settings page can be used to configure the devices that receive alarm notifications. The Site Settings page is password protected to limit uncontrolled modifications to the system. In order to access

the Site Settings page, the user must first login to the system. The user must have Admin rights in order to access the Site Settings page. The login page is shown in Figure 14.



The screenshot shows a web page with a green header banner. On the left side of the banner is the Cypress EnviroSystems logo, which consists of a stylized blue and green leaf icon followed by the text "CYPRESS" in bold and "ENVIROSYSTEMS" in a smaller font below it. Below the banner, the text "Enter your User Name and Password to access protected pages." is displayed. Further down, there is a login box titled "WGR Server Login". Inside this box, there are two input fields: "User Name:" and "Password:". To the right of the "Password:" field is a "Log In" button.

**Figure 14. Site Settings Login Page**

Once the user has successfully logged in, the Site Setting Page, shown in Figure 13, will appear.

Site Name:  Site ID:

☐ Use Local SMTP Server for Email Alarms


SMTP server:  SMTP Port:  Domain:

User ID:  Password:

Alarm Recipients

Name:

Phone#:

Email address:  

	Phone Number	Belongs to	Email
<a href="#">Edit</a> <a href="#">Delete</a>	555-555-5555	John Doe	jdoe@cypress.com

**Figure 15. Site Settings Page**

The user can change the Site Name which will appear in the upper right of the Menu Bar by changing the name in the Site Name text field and clicking Update.

To use a local SMTP server to send email notifications, check the “Use Local SMTP Server for Email Alarms” check box. Specify the SMTP Server name (e.g. mailhost.mis.mycompany.com), SMTP port (e.g. 25). Only if Credential’s are required to access the SMTP server then specify the UserID, Password and Domain name. Then click on “Update” to save the data.

Node alarms can be sent to any device capable of receiving an SMS message or email. This screen allows the user to select which alarm recipients will receive alarms messages. All recipients in the list will receive all active alarms.

Alarms must be reset after they are triggered. This mechanism is designed so that recipients do not receive constant alarm messages. Clicking on the red “Alarm Status” tab from any screen takes the user to the WGR Alarm History page. The alarm is reset from here by clicking on the green “Alarm Reset” button.

To add alarm recipients, enter the recipient’s name, phone number (e.g. 15554443333) and/or email address and click the “Add” button. Area codes and the “1” prefix are required on all phone numbers. International codes are required for international SMS. Click on “[Edit](#)” to edit the name, number, or email of the recipient. Then click on “[Update](#)” to save the values. To add an email only for a recipient, a “1” must be entered into the “Phone#” field.

## SMS Commands

From an authorized text messaging device enter the SMS phone # 32075 (for SMS within the US) or 447786204951 (for international SMS). From there the user can enter any one of the commands listed below to query the server remotely. An authorized text messaging device is one that has been added to the SMS Alarm page for the specific site.

Command	Function
CYWGR ?AS?SiteID#,NodeID	Find Node status for specified Node ID
CYWGR ?TR?SiteID#,NodeID	Get Node reading for specified Node ID
CYWGR ?AR? SiteID#,NodeID	Reset Alarm for specified Node ID
CYWGR ?TH? SiteID#,NodeID, hh	Get Node history for specified Node ID in Last hh Hour
CYWGR ??SiteID	SMS command Help

Always remember to have site ID in the SMS command. The site ID can be found on the Site Setting page.

## Technical Support

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