

SiteWatch Gateway

Ethernet/Cellular Notification System

Warning: One or more devices are in alarm or fault. Please see below.

TEST FACILITY NAME	320 SMARTWIRELESS MESH SAFETY NETWORK							
TYPE	SERIAL #	LOCATION /NAME	CONCENTRATION	GAS TYPE	ALARM	STATUS	BATTERY LIFE	LINK QUALITY
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	50	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	50	PPM H2S	OK	OK	DC POWER	80%
CXT SENSOR	-	LOGISYNC	50	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	ALARM 3	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	25%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	1%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	56%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	-
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	100%
CXT SENSOR	-	LOGISYNC	0	PPM H2S	OK	OK	DC POWER	75%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	100%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	0%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	100%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	100%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	99%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	100%
ALARM STATION	-	ALARM	-	-	OK	OK	DC POWER	100%
HMI	-	HMI	-	-	OK	OK	DC POWER	100%

Operator's Installation and Instruction Manual



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Table of Contents

1. Introduction.....	1
2. SiteWatch Gateway Installation and Configuration	1
2.1 Typical SiteWatch Connection to Controller	1
2.2 SW Site Watch	2
2.3 Ethernet Interface	4
2.3.1 <i>Connecting the Ethernet Interface.....</i>	<i>4</i>
2.3.2 <i>Determining the Ethernet Interface IP Address.....</i>	<i>4</i>
2.4 Configuring the Modbus Port.....	5
2.5 Email Configuration	6
2.6 Cellular Modem.....	6
2.6.1 <i>Installing the SIM Card</i>	<i>6</i>
2.6.2 <i>Configuring the Cellular Modem.....</i>	<i>7</i>
2.6.3 <i>Connecting to the Cellular Network.....</i>	<i>8</i>
3. SiteWatch Gateway Web Pages.....	10
3.1 Home Page	10
3.2 Dashboard Page.....	11
3.3 Configuration Pages	13
3.3.1 <i>Device Configuration Page</i>	<i>13</i>
3.3.2 <i>Network Configuration Page.....</i>	<i>14</i>
3.3.3 <i>Email Configuration Page.....</i>	<i>15</i>
3.3.4 <i>Site Configuration Page.....</i>	<i>16</i>
3.3.5 <i>Password Page</i>	<i>17</i>
3.3.6 <i>Firmware Page</i>	<i>18</i>
3.3.7 <i>Reboot Page.....</i>	<i>19</i>
4. Customer Support and Service Policy	20
5. Warranty Notice	21
6. Appendix.....	22
6.1 Specifications	22
6.2 Spare Parts.....	22
6.3 Revision Log	23

Table of Figures

Figure 1 SiteWatch Connectors	1
Figure 2 Master Port Terminals.....	2
Figure 3 Slave Port Terminals	2
Figure 4 SW SiteWatch Dimensional.....	3
Figure 5 AC/DC Power Connections.....	3
Figure 6 LSDiscovery Tool	4
Figure 7 Device Configuration	5
Figure 8 No Communication Error.....	6
Figure 9 SIM Card Slot.....	7
Figure 10 Serial Gateway Ethernet Cable.....	7
Figure 11 Modem Cellular Signal Indicator	8
Figure 12 WAN Interface	8
Figure 13 Home Page	10
Figure 14 Dashboard Page.....	11



Figure 15 Device Configuration Page..... 13
Figure 16 Network Configuration Page..... 14
Figure 17 Email Configuration Page 15
Figure 18 Site Configuration Page..... 16
Figure 19 Password Configuration Page 17

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1. Introduction

The Detcon SiteWatch Gateway is a tool for remote notification of alarms for devices connected to a Detcon X40 or MCX-32 controller. Using an Ethernet or cellular connection, the SiteWatch Gateway sends emails when a device connected to the network is in alarm or fault. The Ethernet connection provides a web interface for convenient monitoring and viewing of the entire network and each device's state.

The SiteWatch Gateway is available in two stand-alone enclosures and as a built in accessory to a Detcon controller. The Typical SiteWatch standalone unit derives its power from the controller, while the Smart Wireless (SW) SiteWatch utilizes an RXT-320 Transceiver for communications, and derives its power from either customer provided AC or DC. All versions offer the ability to communicate via Ethernet or cellular. A simple selector switch allows the user to change between Ethernet and cellular communication.

2. SiteWatch Gateway Installation and Configuration

2.1 Typical SiteWatch Connection to Controller

1. If the SiteWatch supplied in its own enclosure, then it includes a power/Modbus cable to connect it to the X40 or MCX-32 controller. Connect this cable to the circular connector on the bottom of the SiteWatch enclosure (Figure 1). If the SiteWatch is built in to the X40 or MCX-32, then no additional cabling is needed. Skip to Section 2.3 (Ethernet Interface).

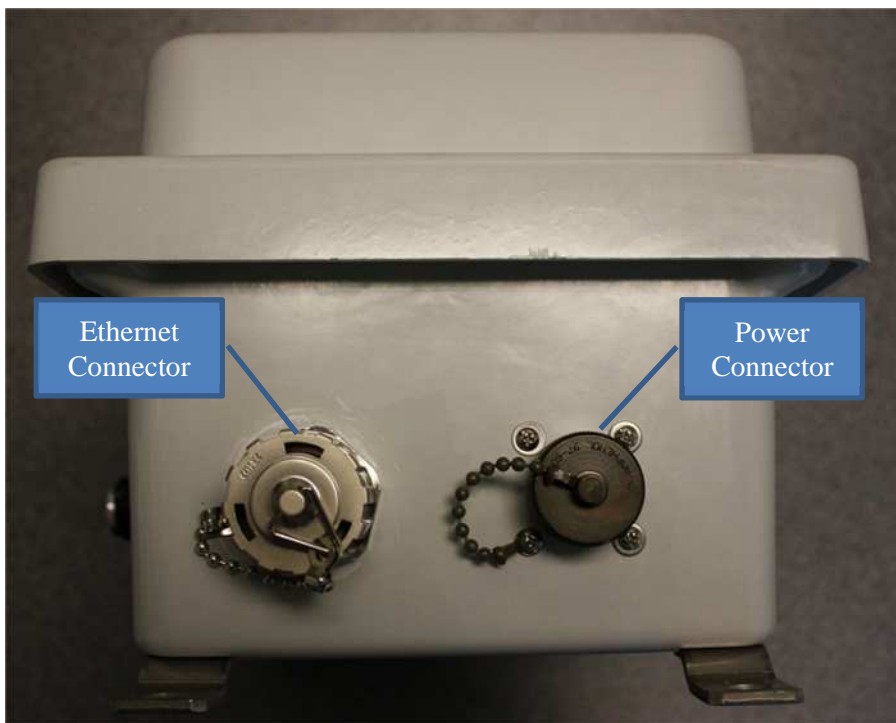


Figure 1 SiteWatch Connectors

2. Connect the other end of the cable to the terminals inside the X40 or MCX-32. The red and black wires connect to the Master Port “+” and “-” terminals (Figure 2). The blue and white wires connect to the Slave Port “A” and “B” terminals (Figure 3).

From SiteWatch

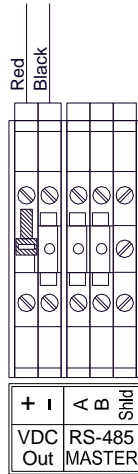


Figure 2 Master Port Terminals

From SiteWatch

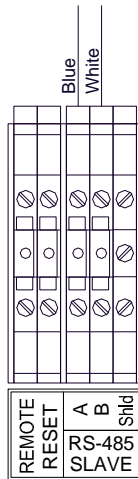


Figure 3 Slave Port Terminals

2.2 SW Site Watch

The Smart Wireless (SW) SiteWatch is a standalone unit that communicates with the controller through Detcon’s Smart Wireless transceivers. The SW SiteWatch unit needs to be connected to either 24VDC, 110/220VAC, or both.

1. Mount the Smart Wireless SiteWatch securely on a smooth surface according to the diagram in Figure 4. Ensure to leave enough overhead room for the antenna’s, and ensure that there is nothing that can impede the unit from clear transmission or reception.

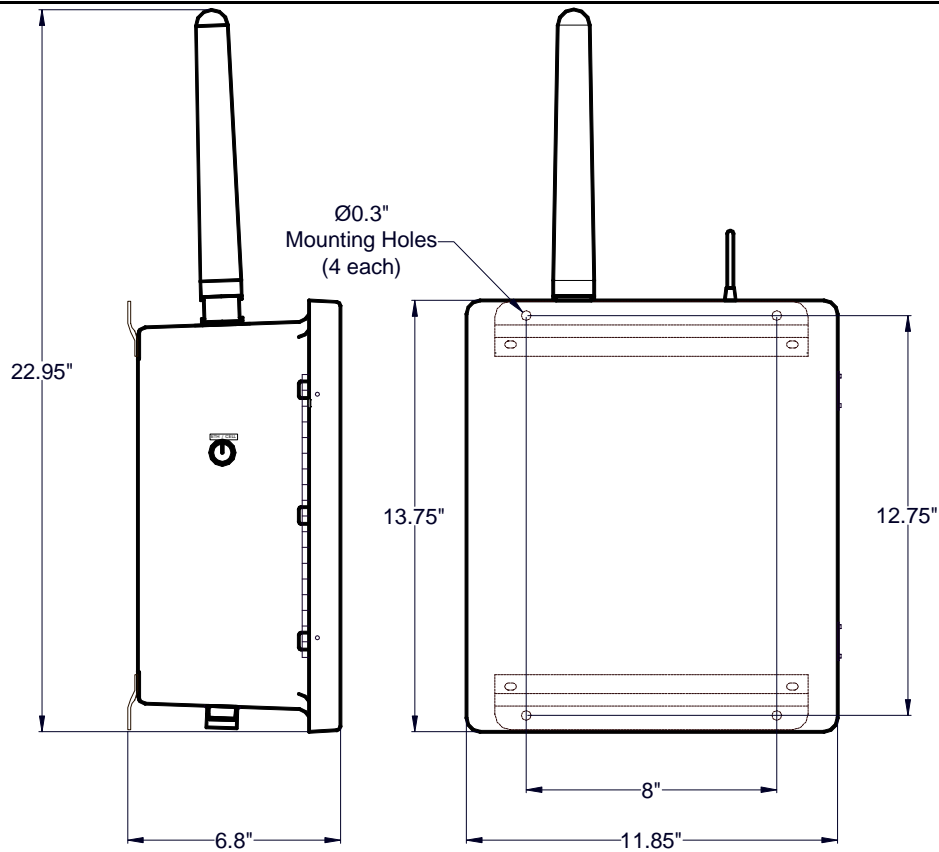


Figure 4 SW SiteWatch Dimensional

2. Connect incoming AC power to the terminal blocks labeled “VAC (L1)”, “NEU (L2)”, and “GROUND”).
3. Optionally connect 24VDC to the terminal Blocks labeled “24VDC” and “DC Comm”.
4. When power has been connected to the unit, apply power by turning on the associated circuit breakers.

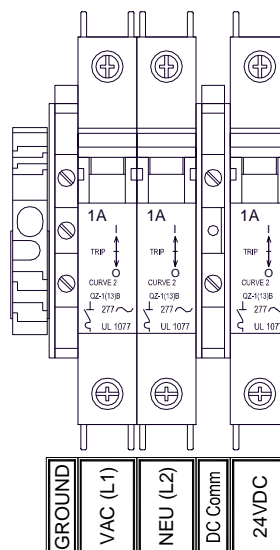


Figure 5 AC/DC Power Connections

5. If the RXT-320 has been wired properly, the unit will start communication with the controller and will operate normally. Refer to the controller manual for more information on the operational set up of the RXT-320 used for intercommunication with the controller..

NOTE The unit should come from the factory with the RXT-320 transceiver set up. Refer to the controller manual for more information on the operational set up of the RXT-320.

2.3 Ethernet Interface

2.3.1 Connecting the Ethernet Interface

1. Set the Output Selector Switch on the side of the SiteWatch to “ETH”.
2. Connect a cable from the Ethernet connector on the SiteWatch enclosure (see Figure 1) to the Local Area Network (LAN).
3. The SiteWatch Ethernet interface is configured to accept an IP address from a DHCP server. Once the Ethernet cable is connected between the SiteWatch and LAN, wait at least 60 seconds for the IP address to be assigned.

2.3.2 Determining the Ethernet Interface IP Address

Run the LSDiscovery application to determine which IP address was assigned to the Ethernet Interface

1. Figure 6). The LSDiscovery program can be downloaded from the Detcon website (link).

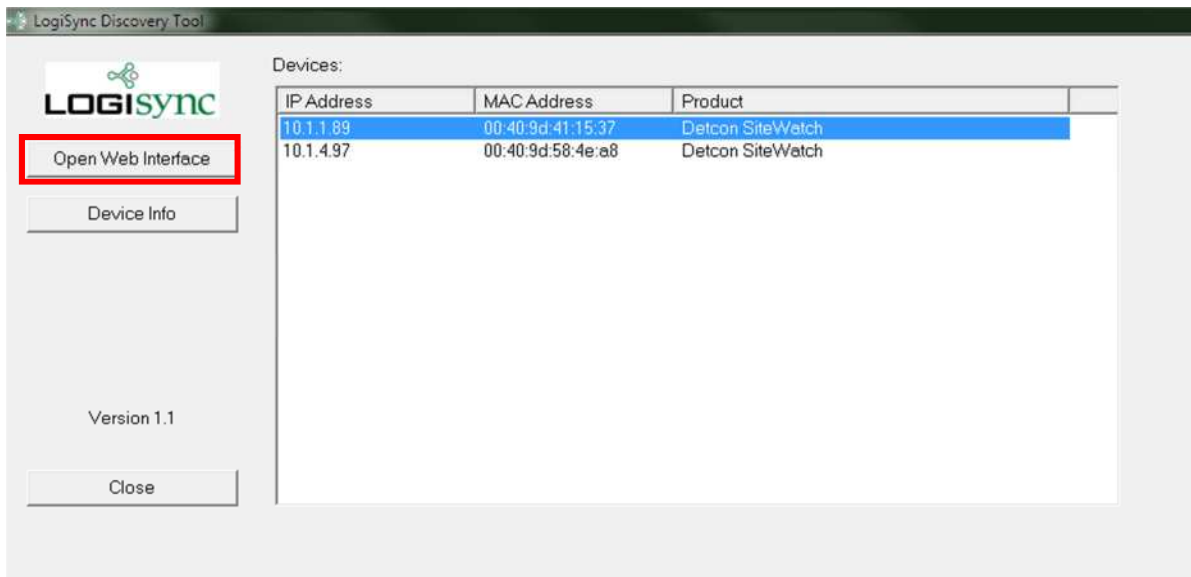


Figure 6 LSDiscovery Tool

2. Select the IP address of the SiteWatch and the click “Open Web Interface”
3. The SiteWatch web page will open. Click the Configuration tab in the upper right corner of the web page.
4. Use the following credentials to log into the SiteWatch Gateway for the first time:
 - a. User: **admin**
 - b. Password: **password**

2.4 Configuring the Modbus Port

1. After logging into the SiteWatch Gateway, the Modbus Port needs to be configured. Navigate to the “Configuration” page using the menu at the top of the screen. The default settings for “Device Configuration” are as follows and should correctly establish communication to the X40 or MCX-32 controller:
 - a. Slave address: **1**
 - b. Baud rate: **9600**
 - c. Response timeout (ms): **1000**

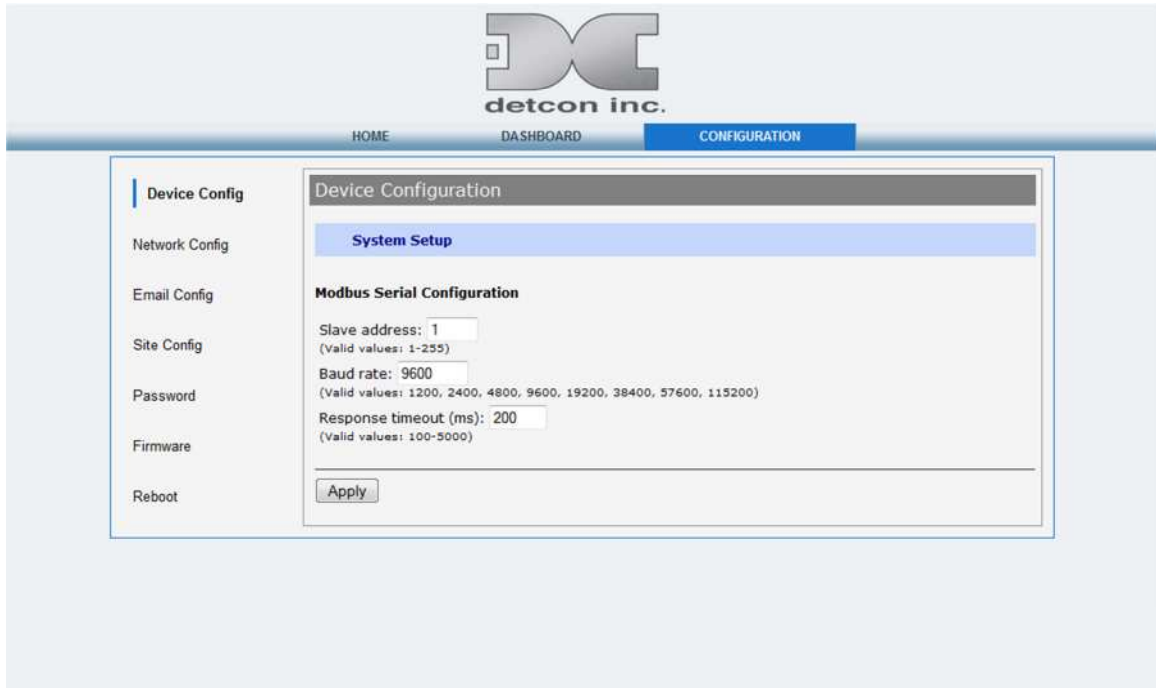


Figure 7 Device Configuration

2. Once these values are verified, navigate to the “Dashboard” page using the menu at the top of the screen.
 - a. If the dashboard displays an error message (Figure 8), ensure the X40 or MCX-32 controller is properly configured and the Modbus/power cable is correctly connected.



Figure 8 No Communication Error

2.5 Email Configuration

1. Click the “Configuration” menu button to navigate to the “Configuration” page.
2. Click “Site Config” and enter the details of the location and user information for the SiteWatch Gateway. Note that the email addresses and users defined here will be used in the “Email Configuration” page.
3. Click the “Apply” button to save the changes to the device.
4. Click “Email Config” along the left-hand side to access the Email Configuration page.
5. Obtain the credentials and information for the SMTP server to be used for sending alarm and fault emails.
 - a. SMTP Server Hostname: the hostname of the SMTP server to be used (example: smtp.gmail.com)
 - b. SMTP Server Port: the port used by the SMTP server for incoming connections. Typically port 25.
 - c. SMTP Authentication: if a username and password are required for sending emails (typical), enter the credentials here.
 - d. Sender’s email address: the email address of the sender. Typically an email address associated with the company name. However, it can be any valid email address. (example: SiteWatch1@detcon.com)
 - e. Recipient: the recipients of alarm emails. Check these boxes if you want the user to receive alarm and fault emails. If a user is not listed, navigate to the “Site Configuration” page and add them.
6. Click “Apply” to save the changes. The configuration of the SiteWatch Gateway is now complete.

2.6 Cellular Modem

If the cellular modem in the SiteWatch is being used for communication, follow the steps below. If the cellular modem is not installed or is not being used, this section may be skipped.

2.6.1 Installing the SIM Card

1. Place the SiteWatch Gateway in an area with good connectivity to the cellular network. If the quality of connectivity cannot be determined, proceed with the installation and configuration steps. The signal strength for the cellular network can be determined once the system is configured.
2. Insert the SIM card provided by the cellular carrier by unscrewing the two screws shown in Figure 9. Remove the plate, and push the SIM card into its slot. Re-attach the plate using the two screws.

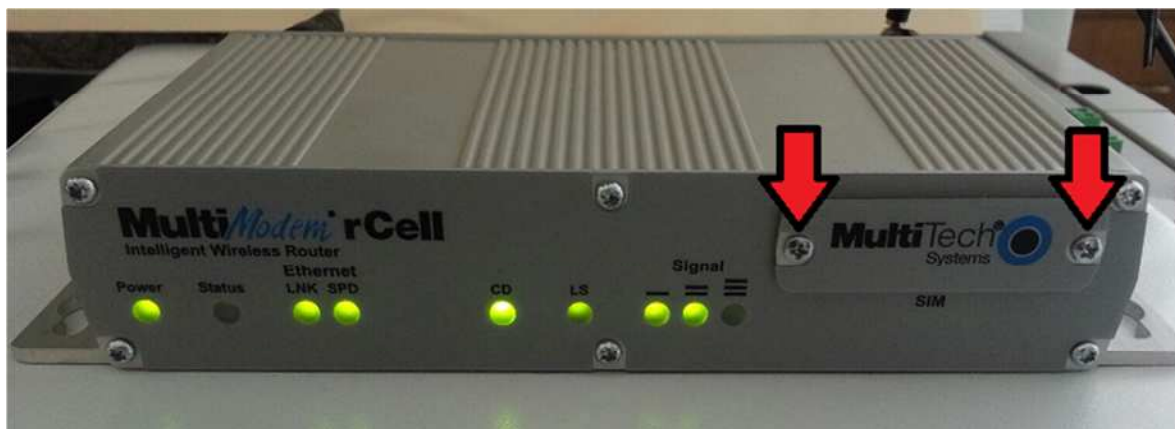


Figure 9 SIM Card Slot

2.6.2 Configuring the Cellular Modem

1. Set the Output Selector Switch on the side of the SiteWatch to “CELL” (see **Error! Reference source not found.**).
2. Disconnect the Ethernet cable from the Serial Gateway (see Figure 10). Connect it to the Ethernet port on a PC or laptop. The PC or laptop must be disconnected from any networks (LAN or wireless)

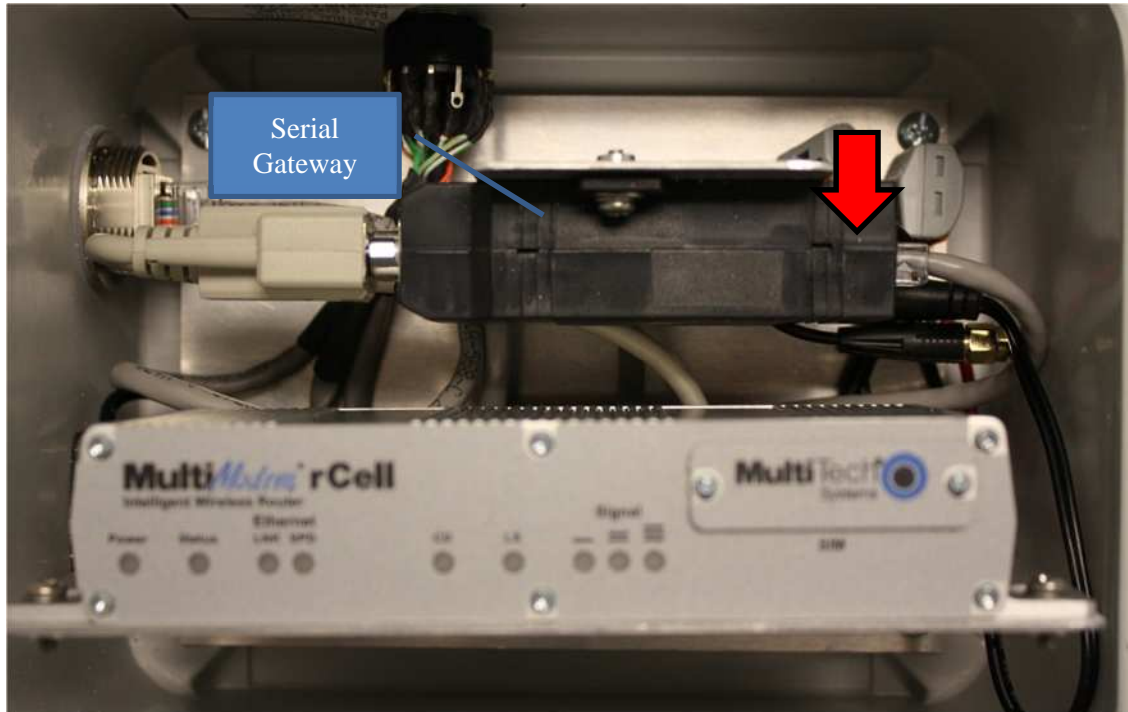


Figure 10 Serial Gateway Ethernet Cable

3. Open Internet Explorer (or an equivalent internet browser) and navigate to 192.168.2.1, the default IP address of the Cellular Router.
4. At the Login screen, log onto the modem with the following credentials:
 - a. User: **admin**
 - b. Password: **admin**
5. From the Web Management software’s menu bar, select **Wizard Setup**.
6. On the **Wizard Setup** page, modify the following parameters:
 - a. DNS – **8.8.8.8**
 - b. Enable PPP by selecting the **Enable** radio button.
 - c. Set “Idle Timeout” to **0** to enable a continuously-active cellular link.
 - d. Enter the **APN** (Access Point Name) provided by the wireless carrier.
 - e. All other configuration settings can be left at their default values.
 - f. Press the **SUBMIT** button to submit the changes to the cellular modem.
7. On the top menu bar, click **Save & Restart**. The modem will reboot itself and enable the changes.

2.6.3 Connecting to the Cellular Network

1. After the modem is rebooted, navigate to it again at address 192.168.2.1.
2. At the Login screen, again log onto the modem with the following credentials:
 - a. User: **admin**
 - b. Password: **admin**

Verify the connection to a cellular network by visually inspecting the SIGNAL status LEDs on the front of the modem, as shown in

3. Figure 11. It may take a few minutes for the connection to be established.



Figure 11 Modem Cellular Signal Indicator

4. Figure 12). If not, it may be necessary to move the unit to where cellular signal strength is higher. A phone from the same cellular provider can also be used to test general signal strength, if the modem is not connecting.

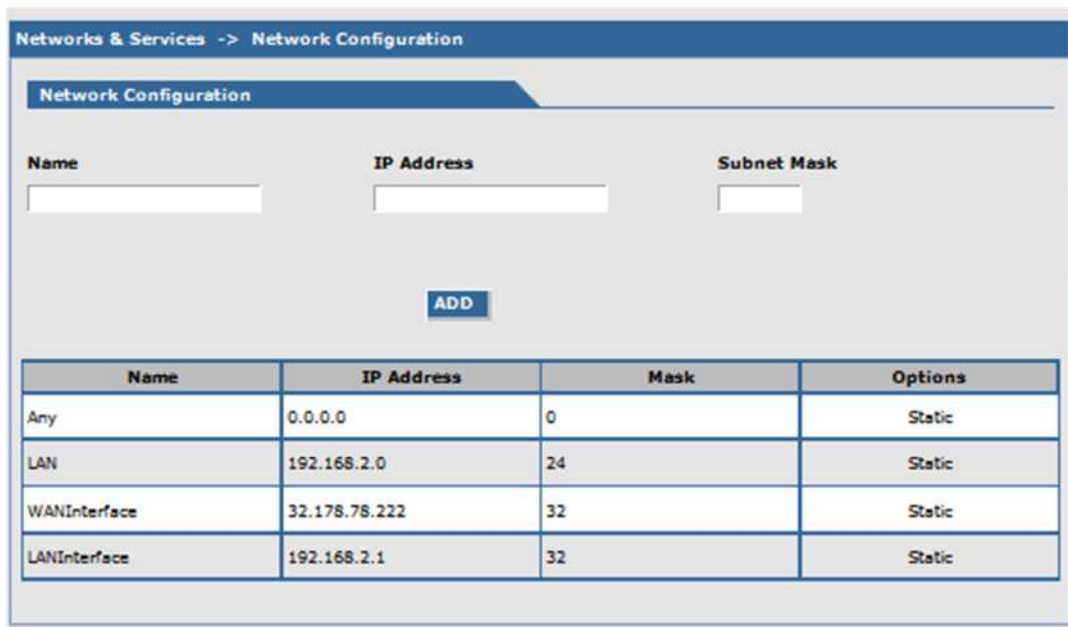


Figure 12 WAN Interface

5. Once the modem is connected to an external cellular network, the system is ready to operate. Reconnect the Ethernet cable to the Serial Gateway.

3. SiteWatch Gateway Web Pages

The web pages on the SiteWatch Gateway can only be accessed through the Ethernet interface. The web pages are not available when the cell modem is used. To access the web pages, confirm that the Ethernet cable is connected from the SiteWatch to the LAN. Then open an Internet browser and navigate to the IP address that was determined in Section 2.3.2.

NOTE The web pages can only be viewed through the Ethernet interface. They are not available via a cellular connection.

3.1 Home Page

The Home Page is the entry point for the SiteWatch Gateway. When a user accesses the device, this page is displayed.



Figure 13 Home Page

Field	Description
Site/Facility	The facility name as defined in the Site Configuration page.
Serial No.	The serial number of the SiteWatch Gateway, as defined in the Site Configuration page.
IP Address	The current IP address of the SiteWatch Gateway.
MAC Address	The MAC address of the SiteWatch Gateway. This value will not change during the life of the unit.
Modbus Status	The current status of the Modbus connection to the controller. Values are: "OK" or " Warning: Not responding ". If the controller cannot be accessed via Modbus, the warning will appear.
Unit Uptime	The amount of time the SiteWatch Gateway has been running.

Local Time	The local time of the SiteWatch Gateway. This time is generated by the controller and used locally.
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3.2 Dashboard Page

The Dashboard page provides a single user interface for monitoring all devices in the gas detection system. It displays information for each device as read from the X40 or MCX-32 controller and is updated on a periodic basis. To access the Dashboard page, click the “Dashboard” tab at the top of the screen. Enter the default username (“admin”) and password (“password”) when prompted.

DETCON TEST SYSTEM		320 SMARTWIRELESS MESH SAFETY NETWORK						
TYPE	SERIAL #	LOCATION/NAME	CONCENTRATION	GAS TYPE	ALARM	STATUS	BATTERY LIFE	LINK QUALITY
CXT SENSOR	-	CHANNEL 01	0	% LEL	OK	OK	10.55 V	100%
CXT SENSOR	-	CHANNEL 02	0	PPM H2S	OK	OK	45+ DAYS	100%
SENSOR	-	CHANNEL 03	0	PPM H2S	OK	OK	DC POWER	-
SENSOR	-	CHANNEL 04	0	PPM H2S	OK	OK	DC POWER	-
SENSOR	-	CHANNEL 05	0	PPM H2S	OK	OK	DC POWER	-
SENSOR	-	CHANNEL 06	-25	PPM H2S	OK	FAULT	DC POWER	-
ALARM STATION	-	ALARM STATION 03	-	-	OK	OK	89%	100%

Figure 14 Dashboard Page

The Dashboard page automatically refreshes every 15 seconds, displaying the latest data from the controller. If communication between the SiteWatch Gateway and the controller is lost, a message will be displayed at the top of the page reading “**Error: Communication fault to controller. Displaying last known values.**”. If this message is present, check the wiring to the X40 or MCX-32 controller and ensure the SiteWatch Gateway is configured properly. No alarms or faults will be reported by the SiteWatch Gateway during this error. The X40 or MCX-32 controller will continue functioning normally, unless it encountered a problem itself.

The columns display the following information:

Column	Description	Notes
Type	Type of device	Supported types are: Sensor, CXT Sensor, Alarm Station, Repeater, HMI
Serial Number	Serial number reported by the device	Serial numbers are not displayed for 320 SmartWireless Mesh Safety Networks.
Location/Name	Device name or location	
Concentration	Current reported concentration of sensor	Only applies to Sensor devices.
Gas Type	Current reported units and gas type of sensor	Only applies to Sensor devices.

Column	Description	Notes
Alarm	Current level of alarm for the sensor device.	Only applies to Sensor and Alarm Station devices. Alarm 3 is highest priority, followed by Alarm 2, and Alarm 1 is lowest.
Status	Current fault status of the Sensor device.	Only applies to Sensor and Alarm Station devices. Supported faults are: Sensor Fault (FAULT) Communication Error (COMM ERROR) Offline (Offline) Device in Calibration (CAL) Low Battery (LOW BATT) Battery Error (BATT ERR)
Battery Life	Battery life (in days or %) reported by the device	Alarm stations report battery life in percent. All other devices report battery life in days. Devices without battery life report "DC POWER" for this column.
Link Quality	Wireless link quality reported by the device.	

When a device is in alarm or fault, an email is sent to the users defined on the Email Configuration page.

3.3 Configuration Pages

3.3.1 Device Configuration Page

The Device Configuration page provides configuration options for communicating to the controller.



Figure 15 Device Configuration Page

Field	Description	Notes
Slave Address	The Modbus address of the controller, which acts a Modbus slave to the SiteWatch Gateway.	Valid Values: 1-255 Default value: 1
Baud Rate	Baud rate of the serial connection between the SiteWatch Gateway and the controller.	Valid values: 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200 Default value: 9600
Response Timeout	Maximum amount of time (in milliseconds) the SiteWatch Gateway will wait for the controller to respond to a Modbus request.	Valid values: 100-5000 Default value: 1000 (ms)

3.3.2 Network Configuration Page

The Network Configuration page provides configuration options for the SiteWatch Gateway’s Ethernet network.

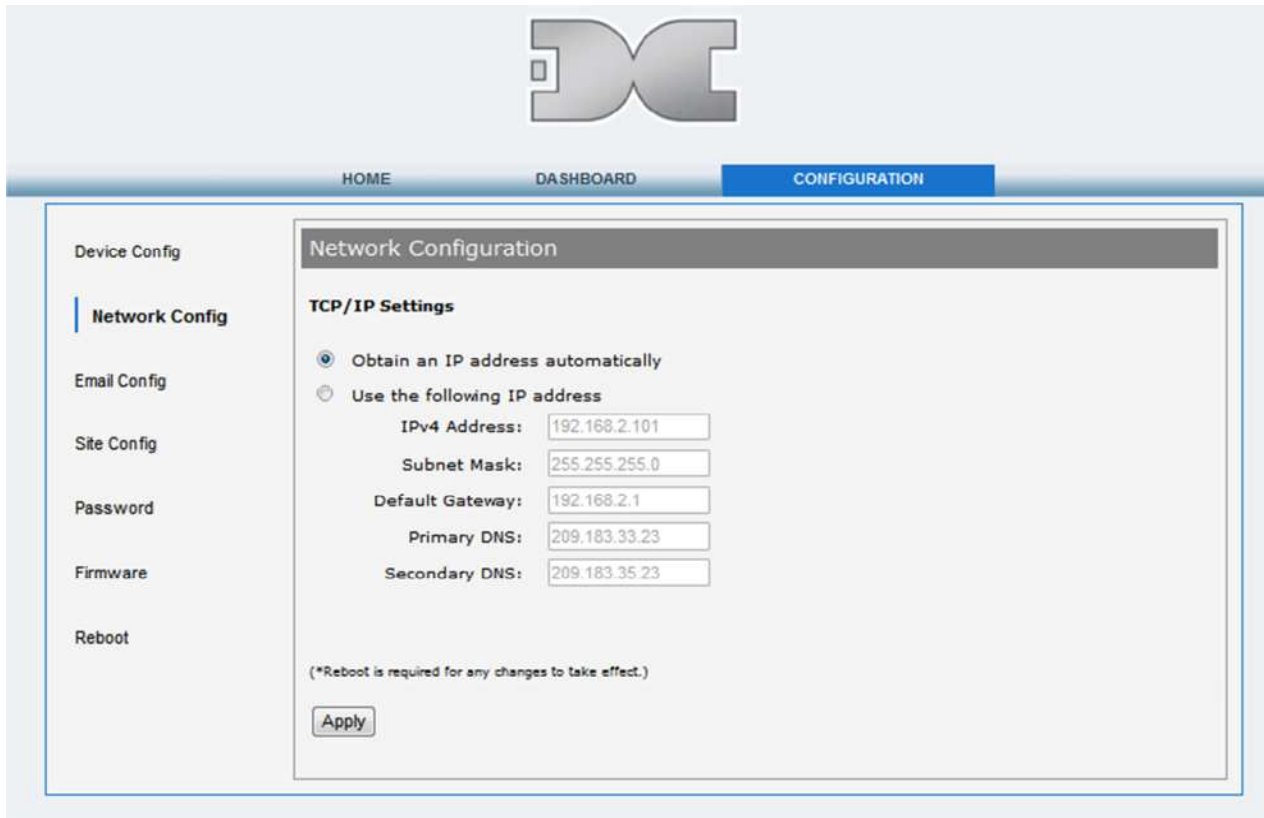


Figure 16 Network Configuration Page

There are two radio buttons on the page for setting the method by which the SiteWatch Gateway receives an IP address.

Radio Button	Description	Notes
Obtain an IP address automatically	The SiteWatch Gateway will automatically retrieve its IP address from an available DHCP server. There must be a DHCP server on the network capable of serving IP addresses.	This is the default setting for a SiteWatch Gateway.
Use the following IP address	Allows the user to manually set an IP address for the SiteWatch Gateway.	

If the second radio button is selected, the following configuration items become available. Only modify these settings if you are sure of their use.

Field	Description	Notes
IPv4 Address	The IPv4 address of the device.	
Subnet Mask	Subnet mask of the device	
Default Gateway	Default network gateway	
Primary DNS	Primary domain name server	
Secondary DNS	Secondary domain name server	

3.3.3 Email Configuration Page

The Email Configuration page provides configuration options for the email functionality of the SiteWatch Gateway.

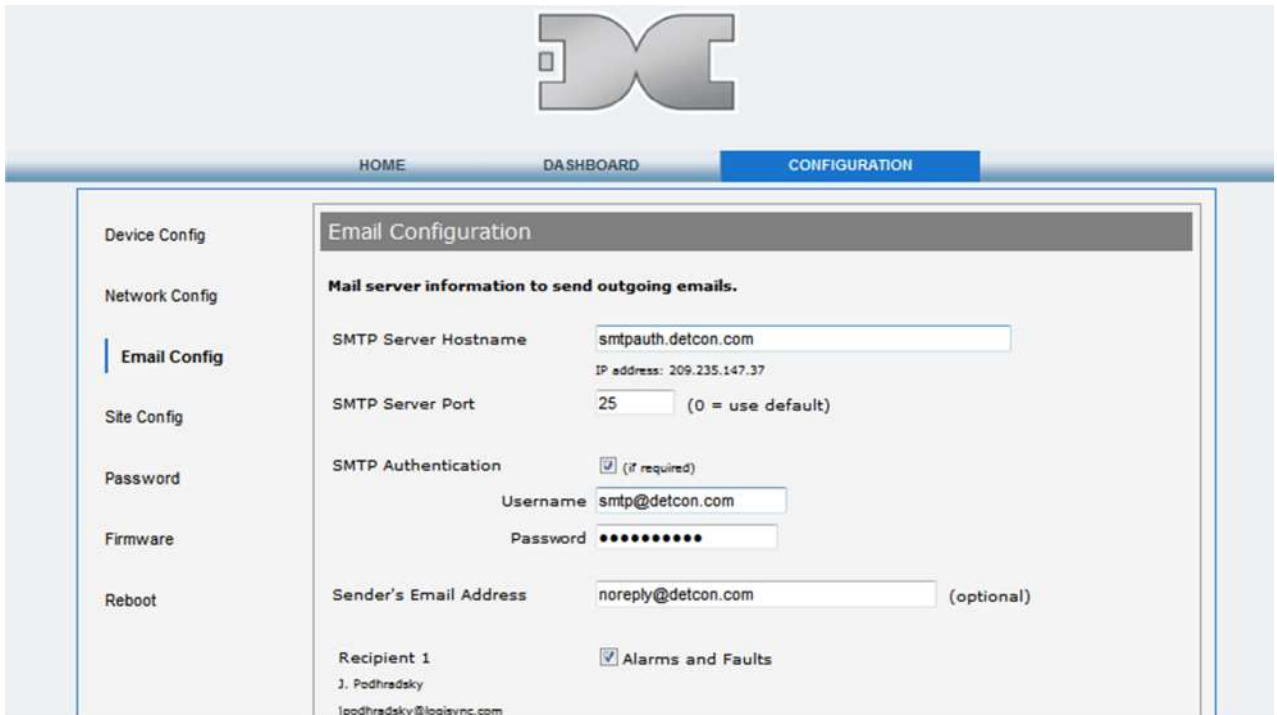


Figure 17 Email Configuration Page

Field	Description	Notes
SMTP Server Hostname	Hostname of the SMTP server used for sending alarm and fault emails.	Can be an IP address or a hostname.
SMTP Server Port	Port number of the SMTP server used for receiving SMTP requests.	Typically port 25.
SMTP Authentication	For SMTP servers that require logins (typical), this checkbox will enable the use of a username and password to log onto the server.	
Sender's Email Address	The "From" email address displayed in the delivered email. This can be any valid email address, however it is typically something such as noreply@detcon.com (replacing 'detcon.com' with your company's domain name).	
Recipient Checkboxes	Check these checkboxes to indicate that the user will receive alarm and fault emails	

3.3.4 Site Configuration Page

The Site Configuration page provides configuration for the site and location of the SiteWatch Gateway. It also provides a means to set the email addresses of users to receive alarm and fault emails.

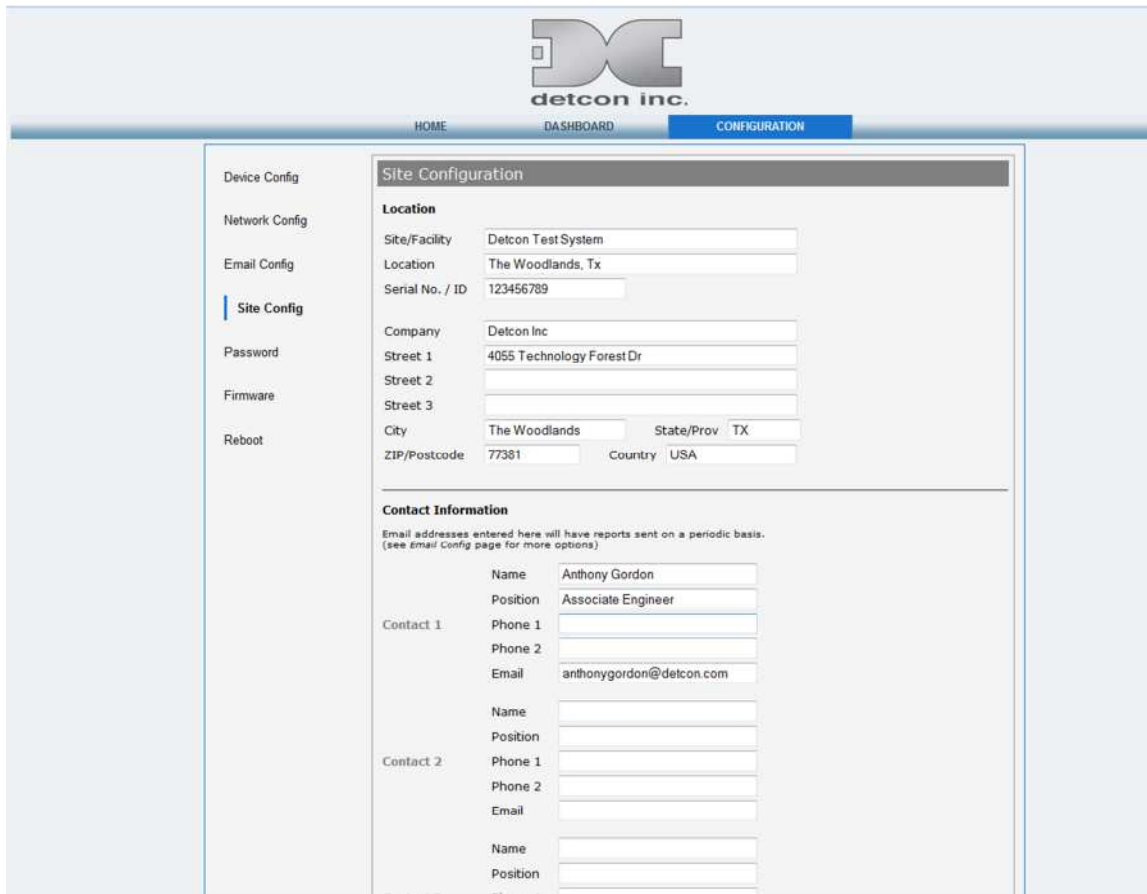


Figure 18 Site Configuration Page

Field	Description	Notes
Site/Facility	Name of the facility the SiteWatch Gateway is located in.	Displayed on home page and dashboard page.
Location	Location of the facility.	Displayed on home page.
Serial No. / ID	Serial number of the device (user-defined)	Displayed on home page.
Company	Company name	
Street 1,2,3	Street address of company	
City	City location of company	
State/Prov	State location of company	
ZIP/Postcode	ZIP code of location of company	
Country	Country location of company	

The Contact Information is used for sending alarm and fault emails.

Field	Description	Notes
Name	Name of the user	
Position	Position of user	
Phone 1 / 2	Contact phone number of user	
Email	Email address to send alarm/fault emails to.	

3.3.5 Password Page

The Password page provides a means to change the password for accessing the Dashboard and Configuration pages in the SiteWatch Gateway. It also provides a means to recover a lost password.

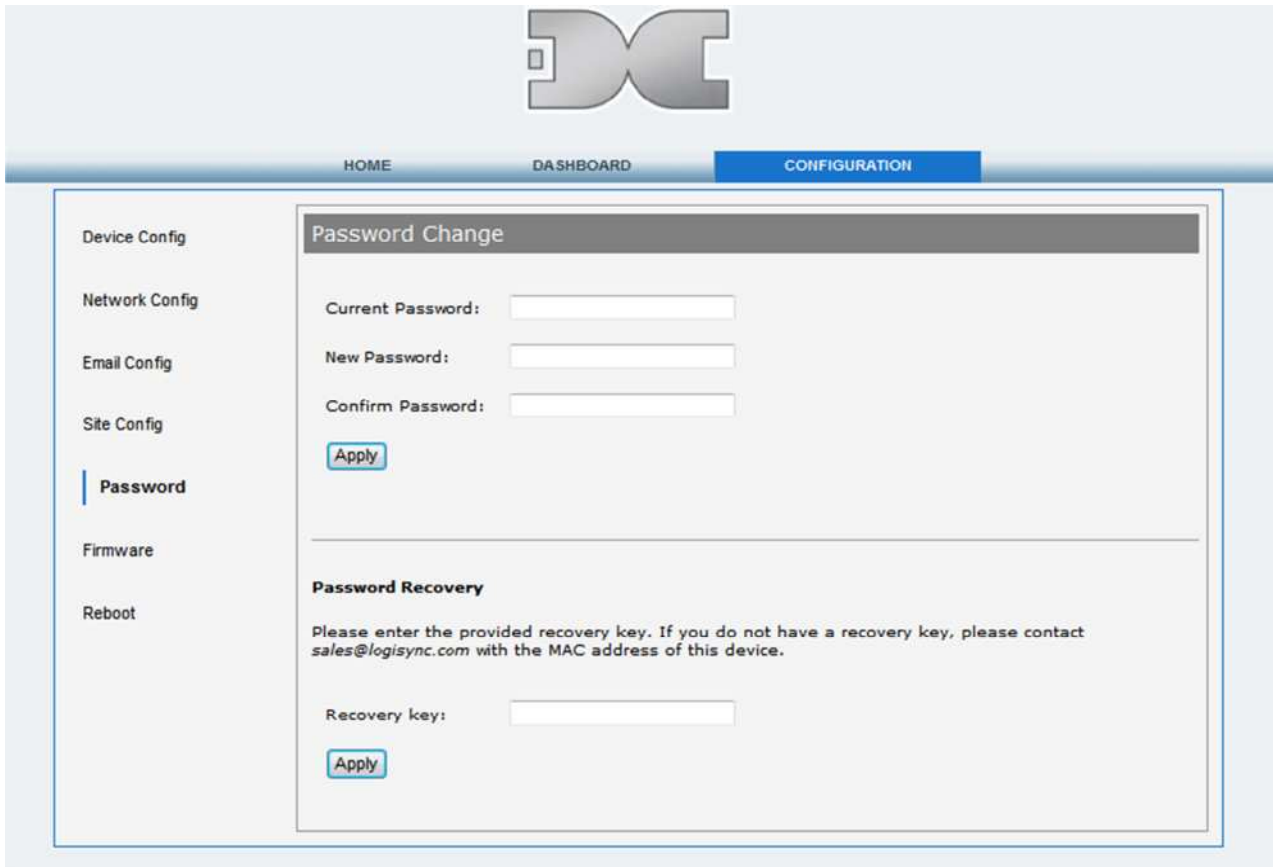
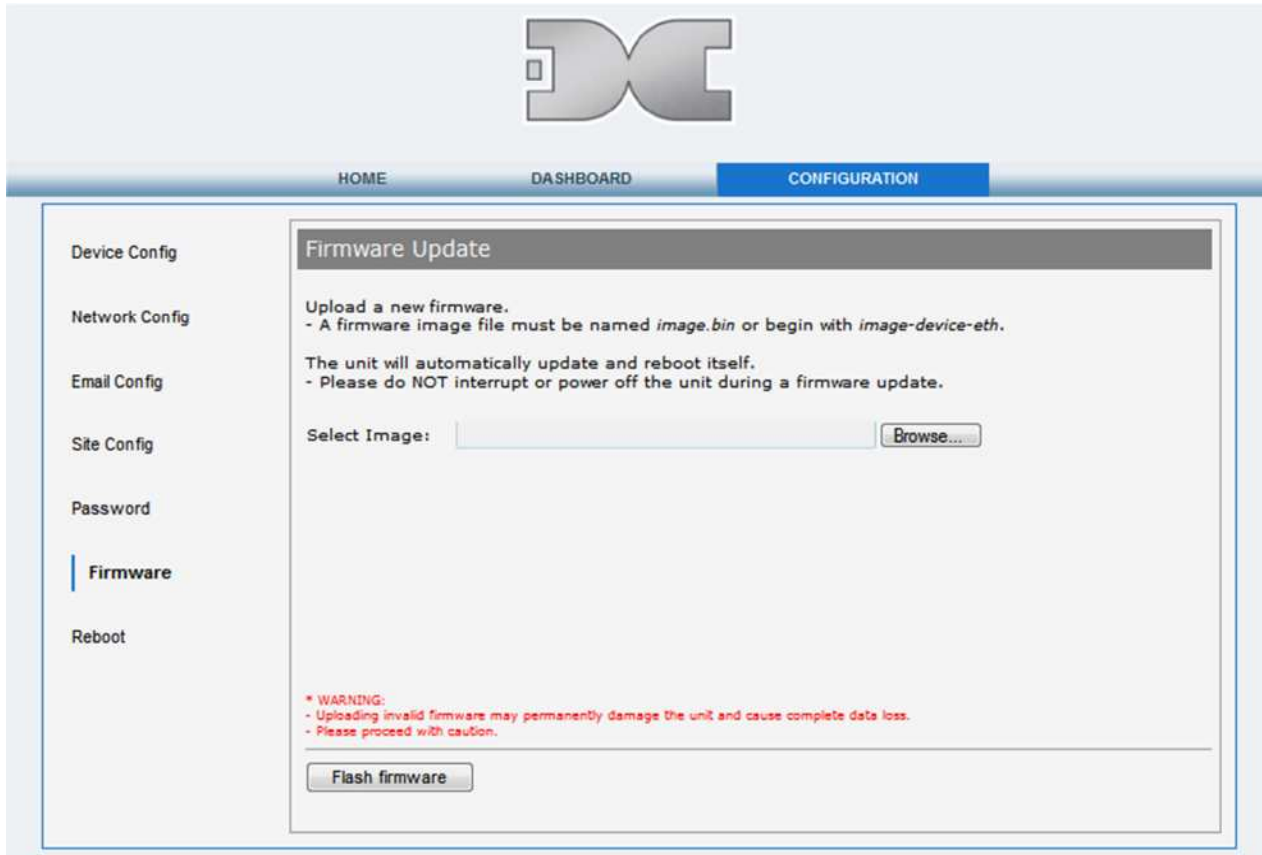


Figure 19 Password Configuration Page

Field	Description	Notes
Current Password	Current password of the device.	Default password for a new unit is password
New Password	The new password for the device	
Confirm Password	Repeat of the new password	
Recovery Key	Used for recovering and resetting a module's password. Contact service@detcon.com if this is required.	

3.3.6 Firmware Page

The Firmware page provides a means to upload a new firmware image to the SiteWatch Gateway. **Care must be taken in uploading a new firmware image as the device can be irreparably damaged if the firmware upload is interrupted.**



The screenshot shows the 'Firmware Update' page in the SiteWatch Gateway configuration interface. At the top, there is a navigation bar with 'HOME', 'DASHBOARD', and 'CONFIGURATION' (the active tab). On the left, a sidebar lists configuration options: Device Config, Network Config, Email Config, Site Config, Password, Firmware (selected), and Reboot. The main content area is titled 'Firmware Update' and contains the following text:

Upload a new firmware.
- A firmware image file must be named *image.bin* or begin with *image-device-eth*.

The unit will automatically update and reboot itself.
- Please do NOT interrupt or power off the unit during a firmware update.

Select Image:

* WARNING:
- Uploading invalid firmware may permanently damage the unit and cause complete data loss.
- Please proceed with caution.

3.3.7 Reboot Page

The Reboot page provides a button to initiate a software reboot to the SiteWatch Gateway. No data will be lost upon rebooting the Gateway.



4. Customer Support and Service Policy

Detcon Headquarters

Shipping Address: 4055 Technology Forest Blvd, The Woodlands, Texas 77381

Mailing Address: P.O. Box 8067, The Woodlands Texas 77387-8067

Phone: 713.559.9200

Fax: 281.298.2868

- www.detcon.com
- service@detcon.com
- sales@detcon.com

All Technical Service and Repair activities should be handled by the Detcon Service Department via phone, fax or email (contact information given above). RMA numbers should be obtained from the Detcon Service Department prior to equipment being returned. For on-line technical service, have the model number, part number, and serial number of product(s) in question available.

All Sales activities (including spare parts purchase) should be handled by the Detcon Sales Department via phone, fax or email (contact information given above).

NOTE

All additional parts must be supplied by Detcon. Use of parts from a third party will void warranty and safety approvals.

NOTE

The SiteWatch Gateway should only be repaired by Detcon personnel or a Detcon trained representative.

5. Warranty Notice

Detcon Inc. warrants the SiteWatch Gateway to be free from defects in workmanship of material under normal use and service for one year from the date of shipment on the transceiver electronics.

Detcon Inc. will repair or replace without charge any such equipment found to be defective during the warranty period. Full determination of the nature of, and responsibility for, defective or damaged equipment will be made by Detcon Inc. personnel.

Defective or damaged equipment must be shipped to the Detcon Inc. factory or representative from which the original shipment was made. In all cases, this warranty is limited to the cost of the equipment supplied by Detcon Inc. The customer will assume all liability for the misuse of this equipment by its employees or other contracted personnel.

All warranties are contingent upon the proper use in the application for which the product was intended and does not cover products which have been modified or repaired without Detcon Inc. approval, or which have been subjected to neglect, accident, improper installation or application, or on which the original identification marks have been removed or altered.

Except for the express warranty stated above, Detcon Inc. disclaims all warranties with regard to the products sold. Including all implied warranties of merchantability and fitness and the express warranties stated herein are in lieu of all obligations or liabilities on the part of Detcon Inc. for damages including, but not limited to, consequential damages arising out of, or in connection with, the performance of the product.

Detcon, Inc. reserves the right to refund the original purchase price in lieu of product replacement.

6. Appendix

6.1 Specifications

System Specifications

Controllers Supported:	Model X40 and MCX-32
Capacity:	32 Channels (X40), 64 Channels (MCX-32)
Input:	RS-485 Modbus RTU
(SW SiteWatch)	110~220VAC @ <1A, 24VDC @ <1A
Outputs:	Ethernet or Cellular
Warranty:	One year

Environmental Specifications

Operating Temperature:	0C to +60C
Storage Temperature:	-40C to +85C
Humidity:	5-90%RH, non-condensing
Altitude:	0 -2000m

Electrical Specifications

Input Voltage:	9-30VDC
Power Consumption:	1.81A @ 9V max.
Electrical Classification:	NEMA 4X

Mechanical Specifications

Dimensions

(Fiberglass Enclosure):	
SiteWatch	7.7" W x 9.6" H x 6" D
SW SiteWatch	11.85"W x 13.75H x 6.8"D

6.2 Spare Parts

Part Number	Spare Parts
320-C5P040-3NA	Ethernet/Cell Selector Switch
323-1202BJ-000	Knob for Ethernet/Cell Selector Switch
960-798434-000	Condensation Prevention Packet
980-953600-100	Modbus/Power Cable
980-RJ4500-02M	Ethernet Cable
995-DCSP01-000	Serial gateway
995-MTCBAH-5EN	Cellular Modem
320-113201-000	1A CA/DC Circuit Breaker *
360-STP-18-024	24V 18W Universal 110/220VAC Power Supply *
976-00132D-000	RXT-320 Transceiver *

* Used in the SW SiteWatch only.

6.3 Revision Log

Revision	Date	Changes made	Approval
1.0	04/25/14	Initial Release	LBU
1.1	10/10/14	Update to include the Smart Wireless SiteWatch	LBU