

Using a Sensatronics EM1 with OPENXTRA HotSpot

This document explains how to use the OPENXTRA HotSpot software to monitor one or more Sensatronics EM1 Environmental Monitors. It describes setting up a very basic set of options for the EM1 Environmental Monitor it does not cover all the possible Alarms and settings.

Overview

Install one or more EM1s on the network

Configure the EM1 as described in the User Guide, giving it an IP address, a subnet mask, a name, and setting the measurement units, Celsius, Fahrenheit, Kelvin or Rankine.

Attach temperature/humidity, or wetness probes as required, and connect the EM1 to the network.

Note: It is normal to set the same measurement units in the EM1 and in OPENXTRA HotSpot, but you can use different units if you required.

Install OPENXTRA HotSpot on the management platform

OPENXTRA HotSpot

Note: OPENXTRA HotSpot will work on any 32 bit windows machine. It will not work on Windows 98 or ME or any other 16 bit Windows machine.

OPENXTRA HotSpot uses a standard Windows setup program and leads you through the various steps to install the software.

Double click on the HotSpot icon to start the program

In OPENXTRA HotSpot the EM1 and associated probes is known as a Sensor.

1. Add a New Sensor
2. Set the Sensor IP address and Community String Names
3. Set the Sensor Display Name
4. Set the Group Display Name (optional)
5. View the Sensor
6. Set Measurement Units
7. Set Alarm Thresholds
8. Set an Alarm
9. Send an Email Alert
10. Send an SMS Alert

Adding a New Sensor

Click on Sensor, New Sensor, or on the New Sensor button

Note: View, Toolbars allows you to show a Toolbar for each Sensor, Group, or Probe.



The 'Insert Sensor' dialog box has a blue title bar with a close button. It contains three text input fields. The first is labeled 'Sensor IP Address:' and contains the text '127 . 0 . 0 . 1'. The second is labeled 'Sensor Read Community:' and contains the text 'public'. The third is labeled 'Sensor Write Community:' and contains the text 'xxxxxxx'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

Type the IP address of the Sensor

This is the IP address you have already configured in the EM1 .

Set the Sensor IP address and Community String Names

Default Read and Write Names are usually public and private. It is likely that you may be using different names for security reasons. Consult your System Administrator if you are not sure of the names.

Note: Generally OPENXTRA HotSpot does not need to know the write Community Name so you can usually ignore this entry.

Set the Sensor Display Name

To help you identify the Sensors you can give them each a more meaningful name.

Right click on Sensor, Set Sensor Display Name, or on the Set Sensor Display Name button



The 'Display Name' dialog box has a blue title bar with a close button. It contains one text input field labeled 'Display Name:' with the text 'EM1'. At the bottom of the dialog are two buttons: 'OK' and 'Cancel'.

Type in a name and click OK.

Set the Group Display Name (optional)

Each set of probes is called a Group. To help you identify the Groups you can give them each a more meaningful name.

Right click on Group, Set Group Display Name, or on the Set Group Display Name button



Note: You can also set a Display name for each Probe in the same way as for Sensors and Groups.

Viewing the Sensor

Click the + sign next to a Sensor Name to view the Groups.

Click the + sign next to a Group to view the Probes.

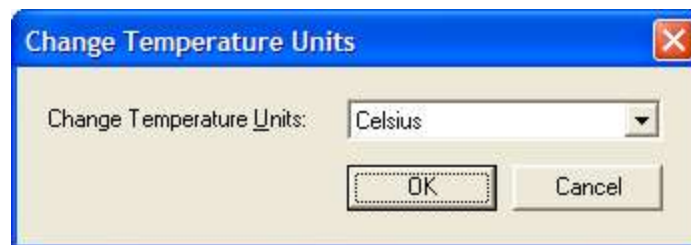
Click a Probe Name to view the details of each Probe.

Setting Measurement Units

You can change the measurement units on the EM1. Choose from Celsius, Fahrenheit, Kelvin, or Rankine.

Right click on a Sensor Name, or click Sensor

Select SNMP, Set Temperature Unit

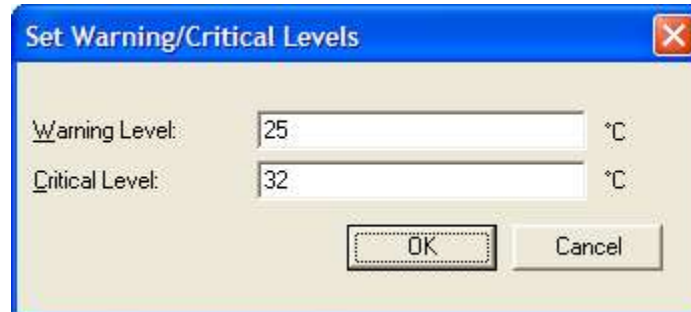


Select the units from the drop down menu and click OK.

Setting Alarm Thresholds

Right click a Probe Name, or click Sensor, Probe

Select Probe Warning/Critical Levels



Type in values for the levels. If required change the measurement units as described above.

Setting an Alarm

Typically Alarms will be triggered when a probe exceeds a user defined threshold. You can set an Alarm on a Sensor, a Group, or on an individual Probe.

Note: You can set an Alarm at Sensor, Group, or Probe level. If you set an Alarm at the Sensor level it will be automatically replicated down through all Groups and Probes. This saves you having to replicate the same Alarm over and over. Any adjustments can then be made to individual Alarms separately.

Click on a Sensor Name

Select the Alarm Tab

Click the Add Alarm button

Click Alarm, OK

Click the Add Alert button

Select an Alert type

Depending on the type of Alarm a further series of options appears.

Sending an Email Alert

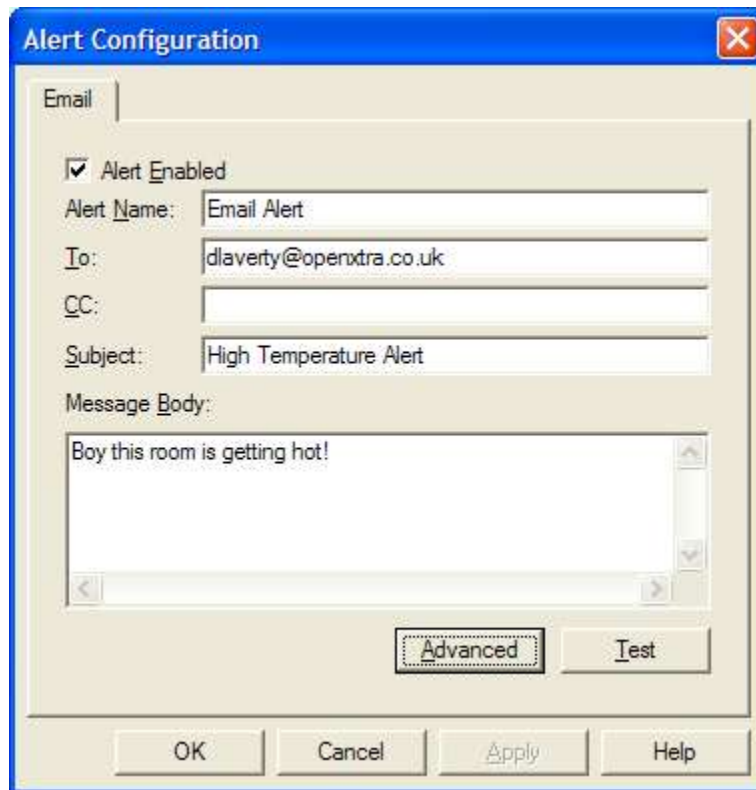
The most common action to perform when an Alarm is triggered is sending an Email or SMS message. The following section describes how to set up an Email Alert.

Set Thresholds for Temperature and/or Humidity and Wetness

Set an Alarm as described above

Click on Email Alert, then OK

Click on Email Alert and then on Configure Alert



The screenshot shows a dialog box titled "Alert Configuration" with a blue title bar and a close button (X) in the top right corner. The "Email" tab is selected. The dialog contains the following fields and controls:

- Alert Enabled
- Alert Name: Email Alert
- To: dlaveryt@openxtra.co.uk
- CC: (empty)
- Subject: High Temperature Alert
- Message Body: Boy this room is getting hot!
- Advanced (button)
- Test (button)
- OK (button)
- Cancel (button)
- Apply (button)
- Help (button)

You can type in a name for the Alert, Email addresses, a subject line, and the contents of the message.

Note: To send to multiple email addresses separate them using a comma.

Click OK to accept the changes and close the dialog box

Note: If you haven't already done so you will need to specify the details of the email account to use as described below.

Specify details of the email account to use

Click on Advanced



The screenshot shows a standard Windows-style dialog box titled "Email". It contains the following fields and controls:

- SMTP Server:** A text box containing "smtp.server name.com".
- Port:** A text box containing "25".
- Name:** An empty text box.
- Address:** A text box containing "username@openxtra.co.uk".
- Authentication Method:** A dropdown menu currently set to "AUTH LOGIN".
- Username:** A text box containing "username".
- Password:** A text box containing "xxxxxxx".
- Buttons:** "OK" and "Cancel" buttons at the bottom.

Specify the SMTP Server name, the Port number (default is normally 25), an optional name, the senders email address.

Authentication is normally required when sending emails. Various types of authentication may be used. A drop down list contains the most common authentication methods.

Select the authentication type that your email system uses

Username and Password are the ones used to send emails from the management machine.

Click OK when you have set the options

Note: If you are unsure about the Authentication Method or any other details, choose some settings and use the Test button on the Alert Configuration screen to try the settings. If it doesn't work then try a different setting.

Sending an SMS Alert

If you require an SMS message the easiest way is to use an Email to SMS service. In this case all you need to do is set up an email message as described above and use the address specified by your service provider.