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EMD5000
Quick Start Guide

Thank you for purchasing the Opengear EMD5000 Environmental Monitor (EMD). Once connected you will be able to use your Opengear console server to monitor the humidity and temperature of a remote location and receive alarms from smoke detectors, water detectors, vibration sensors and open-door sensors at that site.

Note: The EMD can be used only with Opengear console server and cannot be connected to standard RS232 serial ports on other appliances.

Step1   Check kit contents

| EMD5000 Environmental Monitor | 449026 EMD Adapter | UTP Cable | Quick Start |

Step 2   Connect the EMD hardware

The EMD can be connected to any serial port on any Opengear console server via a special EMD Adapter and standard CAT5 cable. The EMD is powered over this serial connection and communicates using a custom handshake protocol. It is not an RS232 device and should not be connected without the adapter:
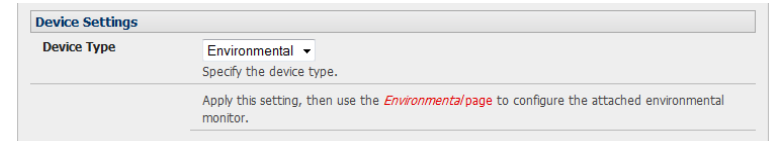
➤ Plug the male RJ plug on the EMD Adapter into EMD and then connect to the console server serial port using the provided UTP cable – the green EMD LED will turn on

Note: If you require a longer cable than the 6 foot (2 meter) UTP cable provided with the EMD kit, a standard Cat5 UTP cable up to 33 feet (10 meters) in length can be used.
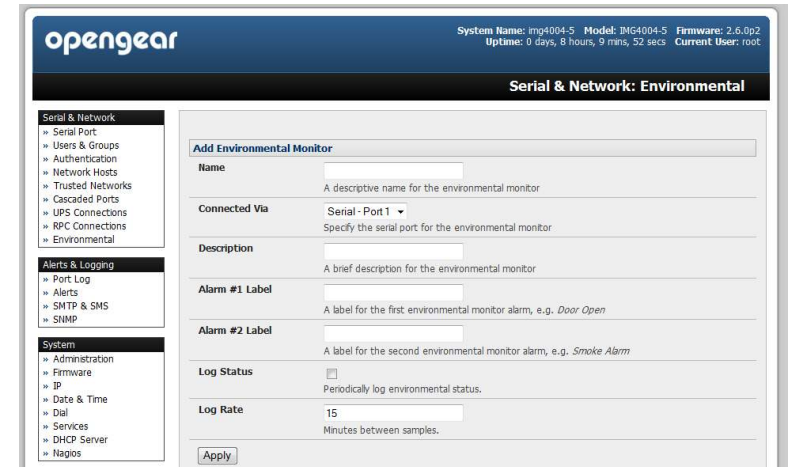
➤ The EMD5000 supports up to two externally connected sensors, such as smoke detectors, water detectors, vibration sensors, open-door sensors or general purpose open/close status sensors

➤ Screw the two bare wires of an external sensor into the two terminals labeled **1** or the two terminals labeled **2**

Step 3   Configure console server

Device Settings

Device Type   Environmental ▼
Specify the device type.

Apply this setting, then use the *Environmental* page to configure the attached environmental monitor.

➤ Select **Serial & Network: Serial Port** – no particular Common Settings are required for the serial port that the EMD is attached to

➤ Select **Environmental** as the **Device Type** and click **Apply** – this will turn the green EMD LED off

Serial & Network: Environmental

Add Environmental Monitor

Name
A descriptive name for the environmental monitor

Connected Via   Serial - Port 1 ▼
Specify the serial port for the environmental monitor

Description
A brief description for the environmental monitor

Alarm #1 Label
A label for the first environmental monitor alarm, e.g. *Door Open*

Alarm #2 Label
A label for the second environmental monitor alarm, e.g. *Smoke Alarm*

Log Status
Periodically log environmental status.

Log Rate   15
Minutes between samples.

Apply

➤ Select **Serial & Network: Environmental** and click **Add**

➤ Enter a **Name** and **Description** for the EMD and select pre-configured serial port that the EMD will be **Connected Via**

➤ Name the **Labels** to be used for each of the two alarms

➤ If you wish the status from this EMD to be logged, check **Log Status** and specify the **Log Rate** (minutes between samples)

➤ Click **Apply**

Note: The LED on the EMD will turn on periodically as its status is monitored.

Step 4   Configure EMD alerts

The EMD5000 has two kinds of sensors – the in-built environmental sensors (temperature and humidity), and externally connected alarm sensors (e.g. smoke detector, water detector, open-door sensor).

To add an alert:

➤ Select **Alerts & Logging: Alerts**, click **Add Alert**

➤ Enter a **Description** for the new alert

➤ Nominate the email address for the **Email Recipient** and/or the **SMS Recipient** be notified of the alert, check **SNMP** to send an SNMP trap, check **Nagios** to send a Nagios notification

If you are adding an environmental sensor alert:

➤ Select the **Applicable Environmental Sensor(s)** to apply this alert to

➤ Scroll down and select **Environmental Sensor Alert**

➤ Select **Temperature** or **Humidity** for the **Sensor Type**

➤ Set the **High** and/or **Low Set Points** at which **Warning** and **Critical** alert notifications will be sent

Note:	**Set Point** values are in degrees centigrade for **Temperature** and % (percentage) for **Humidity**.

➤ You may also specify a **Hysteresis** value used in resetting the alert – this number of degrees (for a **Temperature** alert) or percentage points (for a **Humidity** alert) the sensor reading must drop below a **High Set Point** or to rise above a **Low Set Point** before the alert is reset

➤ Click **Apply**

If you are adding an alarm sensor alert:

➤ Select the **Applicable Alarm Sensor(s)** to apply this alert to

➤ You may also specify the **Alarm Disable** periods, the alert is disabled during these time windows, and no notifications are sent – e.g. you may wish to disable a door open sensor alert during the working day

➤ Click **Apply**

Note:	After adding alerts, select **Alerts & Logging: SMTP & SMS** to configure email server settings, **Alerts & Logging: SNMP** to configure SNMP server settings, or **System: Nagios** to configure Nagios server settings. These settings apply to all alerts. Refer to the *User Manual* on the CDROM for details on configuring these server settings.

Step 5   Monitor EMD status

To monitor the current EMD status:

➤ Select **Status: Environmental Status** to display a status summary of all connected EMDs and externally connected sensors

➤ Click **View Log** or the **Environmental Logs** tab to view detailed historical logs of the selected EMD