# RMS-I-AS Siren & Strobe Sensor



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## 1. Introduction

The Siren & Strobe sensor is a combination sensor that emits a loud piercing sound and a visual blinking strobe light. It makes an important addition to security and safety. These Siren & Strobes are easy to install and configure.

Located at data center entrances, in security areas or at remote sites to alert personnel to trouble or identify intruders are just three examples of how the Siren & Strobe sensors can be utilized.

The Siren & Strobe sensor can be activated manually or triggered by any other sensor connected to the RAMOS Optima or Ultra. Linking the Siren & Strobe sensors to PIR motion sensors or IR parameter beam sensors is two good examples of how these can be used in a security environment.

Also linking the Siren & Strobe sensors to Smoke Sensors or water sensors is two further examples of how the sensors can be used in environmental alerting.

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This sensor cannot be used as a standalone sensor.



## **1.1. Specifications & Features:**

- $\circ$   $\,$  On/Off visual and audio alarm from the Siren & Strobe
- Alarm Sound : 100±3db@100cm
- Strobe Flash Frequency : \_400 Times/Minute
- Light Source : Super bright LEDs x8
- Dimension : 72×123×45 mm
- Sensor type open/closed contact switch
- Power source: powered by the unit. No additional power needed.
- $\circ$   $\;$  The unit auto detects the presence of the Siren & Strobe
- $\circ$   $\;$  Maximum cable extension run length: 30 meters or 100 feet.

## 1.2. Siren & Strobe Sensor OIDs

For normal state, return value = 2

For alarm state, return value = 4

The value of the Status for the OID for switch sensors can be Normal, No Status, Critical, or sensorError.

A popular OID for Siren Strobe Sensors is the status:

#### For RJ45#1, it is .1.3.6.1.4.1.3854.1.2.2.1.18.1.3.0

You can also control the Siren & Strobe sensor using the following SNMP set commands. You can turn on and off the siren strobe with this command below: snmpset -m all -v 1 -c <community> <IPaddress> .1.3.6.1.4.1.3854.1.2.2.1.18.1.25.<port> i <option>

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When the option is: 1 = allow-sensor-control

- 3 = turn-on
- 4 = turn off
- 7 = cycle-Off-On-Off
- 8 = cycle-On-Off-On



## 1.3. Siren & Strobe sensor Pin Assignments



### Siren and Strobe Light Wiring Diagram

The diagram above shows the bottom view of the RJ-45 connector that connects to the base units RJ-45 sensor port. You can wire in line a 5 ohm potentiometer (pot) with the siren, and then it would be possible to adjust the volume or turn off the siren completely.

# 2. Configuring the Siren & Strobe Sensor

- a) Plug the sensor into one of the RJ45 ports on the rear panel of the unit.
- **b)** Now point your browser to the IP address of the unit (default, 192.168.0.100). Next you need to login as the administrator using your administrator password (default is "public"). You will then be taken to the summary page.
- c) From the summary page you need to select the sensors tab. The layout of the next page will vary depending on your unit so please refer to your unit's manual.

**Status:** If the sensor is offline the status is No Status. If the sensor is online and the Siren & Strobe sensor is off the status is Normal. If the Siren & Strobe is triggered or manually turned on then the status is Critical. If at any time communications with the Siren & Strobe is lost, the status of the Siren & Strobe is changed to sensor Error.

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Note: see below for exact steps for configuring the Siren & Strobe Sensors on your base unit.



## 2.1. On RAMOS Optima units

Plug the Siren & Strobe Sensor to the intelligent sensor port.

								Admin Log C	Off
to complete your network			RA	MOS OPTIMA					
Location: Conteg Prague								Current System Time: 15/2/05 18:03:	:28
Summary	Sensors	Traps		Mail	Networ	ĸ	System	Help	
			s	ensor Settings					
Environmental				Sire	en & Strobe Light Settings				
Temperature				Port	2	A			
Humidity				Description	Siren&Strobe Alarm #1				
Liquid Detector			Sire	en & Strobe Light Status	Off				
Airflow Sensor				Sensor Online/Offline	Online				
Contacts & Drivers				Go Online/Offline	Online 💌				
Dry Contacts & Drivers			Description of	of Status When Siren On	Smoke detected				
4-20 mAmp			Description	of Status When Siren Off	0#				
Power			Description e	a status mien siren on					
AC Voltage Detector					Save Reset				
DC Voltage Sensor				Manua	I Siren & Strobe Light Cor	itrol	_		
Kelay			Sire	n & Strobe Light Control	Allow Sensor to Contro	I			
Security Sensor			-	Cycle Time	3		-		
Security				eyere rime	Cause Deset				
Motion Detector					Save Reset				
Alarm Security				Sensor	r Siren & Strobe Light Cor	itrol			
Siren & Strobe Light		_	Sensors Control	led Siren & Strobe Light	View				
Settings			Sensor Normal Sir	ren & Strobe Light State	Off 🔹				
Autosense		•			Save Reset				

Then log in to the RAMOS Optima web interface as the administrator, navigate to the Sensors page, click on the Siren & Strobe Light link in the Alarm Security column on the left of the screen. Now ensure that the "Go Online\Offline" option is set to Online. You can now rename your Siren & Strobe to whatever you wish. You can also rename the Descriptions to match what sensor will trigger the Siren & Strobe. You would then save your settings as shown in the screen shot above.

If you will have the Siren & Strobe sensor that will be triggered by another sensor connected to your RAMOS Optima, then you will need to make sure the "Allow Sensor to Control" is selected in the Manual Siren & Strobe Light Control area as shown in the screen shot above.

You can also set in which state the sensor will be in the Normal State and also View the sensors that are linked with your Siren & Strobe.

Sensor Settings	
Sire	n & Strobe Light Settings
Port	2
Description	Siren2 Description
Siren & Strobe Light Status	Off
Sensor Online/Offline	Online
Go Online/Offline	Online 🔻
Description of Status When Siren On	On
Description of Status When Siren Off	Off
	Save Reset
Manual	Siren & Strobe Light Control
Siren & Strobe Light Control	Allow Sensor to Control 🔽 <
Cycle Time	Allow Sensor to Control
	Cycle Off-On-Off
Sensor	On S Off
Sensors Controlled Siren & Strobe Light	View
Sensor Normal Siren & Strobe Light State	Off 💌
	Save Reset

By choosing either the Siren On or Siren Off from the drop down list you are able to manually control the sensor from the web interface.

#### 2.1.1. Linking the Siren & Strobe To Another Sensor

In this segment we will describe how to link your Siren & Strobe Sensor to another sensor that is connected to your base unit. In this example we will use our Smoke Sensor that has been previously setup on the RAMOS Optima. Please see the user manual for the Smoke Sensor for more information on how to setup this sensor. **1.** 

		RAMOS OPTIMA			Admin Log Off	
Location: Conteg Prague	<u> </u>				Current System Time: 15/2/05 18:28:20	
Summary	Sensors Traps	Mail	Network	System	Help	
		Sensor Settings				
Environmental Temperature Humidity	Settings Relay Contro Siren Control itatus Filter	Dry contact (Smoke	detector) on Port 3			
Liquid Detector	N	This Sensor Controls the Siren on Port	None	-		
Airflow Sensor	45	When the Sensor Goes	Critical	, Turn Off the Siren 👻		
Dry Contacts & Drivers 4-20 mAmp		Cycle Time (secs)	65535 18 hrs, 12 mi	ins, 15 secs		
Power 2		Save	Reset			
AC Voltage Detector	4.					
DC Voltage Sensor Relay						
Security Sensor						
Security Motion Detector						
Alarm Security			6 . L			
Siren & Strobe Light	3. Step is the choosi	ing a sensor port	of the lis	τ		
Settings Autosense	(in this case port 3 re-named to Smoke detector)					

After connecting and setting up the Smoke Sensor on our RAMOS Optima we will click on the sensor link shown in the Sensor Settings page above.

Dry contact (Smol	Dry contact (Smoke detector) on Port 3								
This Sensor Controls the Siren on Por	t	None	•						
When the Sensor Goes	5	None 1 -		urn Off the Siren 🔻 .					
Cycle Time (secs	5) (	2 Siren&Strobe Alarm #1		secs					
		4 -							
Save	•	6-							
		7 -							
		8 -							

We then click on the Siren Control tab for this sensor and then from the drop down menu we will select the port that our Siren & Strobe Sensor is connected to.

ol Siren Control Status Filter	Dry contact (Smoke	detector)	on Port 3		
	This Sensor Controls the Siren on Port	2 Siren8	Strobe Alarm #1	•	
	When the Sensor Goes	Critical	<b>•</b> ,	Off 🔹	].
	Cycle Time (secs)	65535	18 hrs, 12 mins,	Cycle the Siren	
				Off Turre On Until Asked	1
	Save	Reset		Turn Off Until Acked	

Next we will first choose the condition the sensor will be in when our Siren & Strobe will be triggered then choose what the Siren & Strobe will do, for example Turn On which in the example shown above we had re-named the On condition to Smoke Detected.

Siren Control Status	Dry contact (Smoke	Dry contact (Smoke detector) on Port 3								
	This Sensor Controls the Siren on Port When the Sensor Goes Cycle Time (secs)	2 Siren& Critical 65535	Strobe Alarm #1 v, 18 hrs, 12 mins,	▼ Off ▼ Cycle the Siren Smoke detected Off						
	Save	Reset		Turn On Until Acked						

If we choose to Turn On Until Acked (or Acknowledged) as shown above.

Image: Contract of the second seco									
Location: Conteg Prague					Current Sys	tem Time: 15/2/05 18:56:42			
Summary	Sensors	Traps Mail	Network	System		Help			
Auto refresh (sec.) 5	Start	Online Status of Sensors				Last Refresh: 32 se			
Port	Туре	Description	Reading	Status	Action	Graph			
1	Humidity Temperature	Humidity1 Description Temperature1 Description	49 % 25 °C	Normal Normal	-	View View			
2	Siren	Siren&Strobe Alarm #1	-	Siren On					
3	Dry contact	Smoke detector	-	Smoke detected	Ack	-			
4	Security	Security4 Description	-	Normal		-			
5			-	-	-	-			
6			-	-	-	-			
7			-			-			
8	Relay	Relay8 Description	Yes	Critical					

Then when the Siren & Strobe is triggered, in this case by the Smoke Sensor we will see the "Ack" button in the Action column in the Summery page of the RAMOS Optima.

Siren Control Status Filter	Dry contact (Smoke	detector)	on Port 3		
	This Sensor Controls the Siren on Port	2 Siren8	Strobe Alarm #1	•	
	When the Sensor Goes	Critical	▼ ,	Cycle the Siren	• .
	Cycle Time (secs)	65535	18 hrs, 12 mins,	Cycle the Siren	
				Off	
	Save	Reset		Turn On Until Acked	
				Turri Oli Oliul Ackeu	

You are also able to Cycle the Siren & Strobe Sensor by selecting the "Cycle the Siren" from the drop down menu shown in the screen shot above. You can enter the Cycle Time is seconds that you want the sensor to cycle (turn on, then turn off).



## 2.2. On RAMOS Ultra units

Plug the Siren & Strobe Sensor to intelligent port on your RAMOS Ultra unit.

to complete your network				RA					
Location: System Location								Current System	n Time: 26/07/2012 13:22:25
Summary	Map	Senso	rs 🛛	Notification	Access Control	Settin	gs	Applications	Help
					Sensor Se	ettings			
Sensors Menu		1	2	3	4	5	6	7	8
Sensor Ports	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense
Expansion Boards	Statue	•	-			•	•		
Power Meter	Online								
Add Meter	onnie								
Graph		[TITUTION]	TOTIOTION			[11010100]	TITOTOT ]		THIDITOF
Virtual Sensors				<u> </u>				<u>                                     </u>	
SNMP OID		NIC	NIC		Prod Course	NIC	NIC		NIC
Get SNMP OID		NOC.	N/C	Siren	Dual Sensors	NC.	N/C	bry contact no	w.c
Help				Nor	mal Settings	Advanced Settings			
This page shows the sensor parts and their									
respective status and state.					Sensor Name	Siren Port 3			
Click on a port to display or configure its settings.									
Helpful Suggestion					Status C	htt			
					Sensor Currently	Online			
Continuous Time for Sensor									
One way to eliminate false warnings in an unstable temperature ennvironment, is to add time				Description of Status When Sire	en & Strobe Light On	On			
in the continuous time to report feature here.				Description of Status When Sire	en & Strobe Light Off 🛛	Off			
Minimum Time Status									
Prevents the status from fluctuating within the time set. Eg. Sensor can only show high critical state once within 3 seconds, if value is set to 3					Save	Reset			
seconds.									

As shown in the screen shot above the Siren & Strobe Sensor will be auto sensed. If there is a problem with the sensor, you may see a "sensor error" or sensor offline". Check the cable and try another port. Please contact support if you continue to have this problem.

In the Normal Settings screen above you can re-name your Siren & Strobe and you can also re-name the Descriptions when the sensor is On or Off.

Siren	Dual Sensors	N/C
٨	ormal Settings	Advanced Settings
	Enable Graph	© On ◉ Off
	Sensors URL Open link in	Popup Windows on Sensor Name ● ● Current Windows ◎ New Windows
	Filter Status	Enable      Disable     Disable
Siren & Stro	be Light Control Mode	<ul> <li>Manual Control</li> <li>Notification Control</li> <li>Time Control</li> </ul>
Siren &	Strobe Light Control Toggle Test Siren Toggle	Off 5 Second(s) Test
	Save	Reset

After clicking on the Advanced Settings tab you can enable the graph, enter the sensor URL and Enable or Disable the Filter Status. (Please see the RAMOS Ultra or Optima user manual for these settings).

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In the "Siren & Strobe Light Control Mode" setting, you will choose mode type your sensor will be in:

Manual Control: allows you to manually control the sensor from the Summery page.

#### Notification Control: allows a sensor to control it

Time Control: allows you to enable or disable the sensor by a date and time.

#### 2.2.1. Manual control

The "Siren & Strobe Light Control setting is how you want the sensor to act if it is set in the manual control mode. The Toggle field allows you enter a time in seconds for the sensor to toggle on or off and the Test button allows you to test the Siren & Strobe sensor.

	RF							
				Current	t System Time: 26/07/2012 13:41:32			
p Sensors	Notification	Access Control	Settings	Applications	Help			
		Sensor Information			$\mathbf{X}$			
Host Name	Туре	Sensor Name		Reading	Status 🗸			
E Main Module	Dry contact I/O	Dry contact	/O Port 7	-	Normal			
	Dual Humidity	Dual Humid	ity Port 4	54 %	Normal			
	Dual Temperature	Dual Tempera	ture Port 4	24.0 °C	Normal			
	Siren	Siren P	ort 3	· –				
Sensors status will be reloaded in 07 secs								
System Log ( 275 of 344 messages )								

If the sensor is set to Manually Control, then you can turn on and off the sensor from the Summery page as shown above. By moussing over the Off status the On button will pop up and when this is clicked on the Siren & Strobe sensor will turn on.

Then when moussing over the On button in the Summery page the Off button will appear allowing you to manually turn the sensor Off again as shown in the screen shot above.

Normal Settings	Advanced Settings
Enable Graph	© On ◉ Off
Sensors URL Open link in	Popup Windows on Sensor Name
Filter Status	Enable   Disable
Siren & Strobe Light Control Mode	<ul> <li>Manual Control</li> <li>Notification Control</li> <li>Time Control</li> </ul>
Siren & Strobe Light Control	Off 💽
Toggle	On Off
Test Siren Toggle	Toggle Off-On Toggle On-Off
Save	Reset



You are able to select the Toggle Off-On or Toggle On-Off from the Siren & Strobe Light Control drop down list.

Normal Settings	Advanced Settings
Enable Graph	© On ◉ Off
Sensors URL Open link in	Popup Windows on Sensor Name
Filter Status	Enable O Disable
Siren & Strobe Light Control Mode	<ul> <li>Manual Control</li> <li>Notification Control</li> <li>Time Control</li> </ul>
Siren & Strobe Light Control	Off
Toggle	On Off
Test Siren Toggle	Toggle Off-On
Save	Reset

If you have the sensor set to Toggle Off-On, the sensor will stay off for 5 seconds (or however long you have the Toggle field set to then turn On.

Normal Settings	Advanced Settings
Enable Graph	© On ● Off
Sensors URL Open link in	Popup Windows on Sensor Name
Filter Status	Enable      Disable     Disable
Siren & Strobe Light Control Mode	<ul> <li>Manual Control</li> <li>Notification Control</li> <li>Time Control</li> </ul>
Siren & Strobe Light Control Toggle	Toggle On-Off     ▼       On     5)
Test Siren Toggle	Toggle Off-On Toggle On-Off
Save	Reset

If you have the sensor set to Toggle On-Off, the sensor will stay On for 5 seconds (or however long you have the Toggle field set to then turn Off.



#### 2.2.2. Notification Control

Normal Settings	Advanced Settings
Enable Graph	© On ◎ Off
Sensors URL Open link in	Popup Windows on Sensor Name
Filter Status	Enable      Disable     Disable
Siren & Strobe Light Control Mode	Manual Control     Notification Control     Time Control
Notification Controlled Siren & Strobe Light	View To set notification controlled Siren Strobe Light click here
Test Shen Toggle	Reset

In order to have another sensor that is connected to the RAMOS Ultra intelligent ports or dry contact inputs trigger the Siren & Strobe sensor you must have the sensor set to Notification Control as shown in the screen shot above.

In the following segment we will go over how to create a Siren action and then link this action to an Smoke Sensor that has already been connected and setup on the RAMOS Ultra.

Note: Please see the separate user manual for the Smoke Sensor on how to setup this sensor on the unit.



#### 2.2.3.Time Control



When selecting the Time Control option mode, you can enable or disable the sensor in regards to the day of the week and the time of the day as shown in the screen shot above.

## 3. Creating Siren Action

Location. System Location						current o			
Summary		Sensors	Notification	Access Control					
				Action					
Notification Menu									
Begin Notification Wizard		Action Type	Action Name	Action Name Action Information					
Action			_						
Link Sensor To Action				Create Duplicate Edit	Remove				
Options		Tart Asland							
View Notification Log									
Notification Analyzer									

To setup the Siren action you first need to navigate to the Notification page, then after clicking on the Action link in the left column, you will click on the "Create" button to launch the new Action Wizard in the RAMOS Ultra web interface as shown in the screen shot on the previous page.

	Create Action
Select an Action Type	SNMP Trap SNMP Trap Email SMS Relay FTP
	Custom Script Fax Siren Wake Up / Shutdown
	Windows Alert Skype Call/SMS Dry contact Enable/Disable Sensor To Action
	Modbus Alarm Sound Speech Sound Log

Now we will select the Siren Action from the "Select an Action Type" drop down list and click on the Next button as shown in the screen shot above.

Siren Action Wizard				
Action Name	Siren 1			
Controls the Siren on Module	Main Module 💌			
Port	Siren Port 3 💌			
Action	Until Acknowledged 💌			
Delay Before Turn On	Until Acknowledged Until Sensor Normal			
	Defined Time			
Note:	Controlled siren must be set to notification control mode.			



In the next screen of the new Action Wizard we will choose where the Siren & Strobe is connected either the Main Module (base units 8 RJ-45 intelligent sensor ports) or one of the Expansion Units. Then we will choose the Port the sensor is connected to and then we will choose how the sensor will act, either turning on until acknowledged, until the sensor returns to normal or a defined time as shown in the screen shot above.

5	Siren Action Wizard
Action Name	Siren 1
Controls the Siren on Module Port	Main Module
Action	Until Acknowledged 💌
Delay Before Turn On	0 Second(s)
Note:	Controlled siren must be set to notification control mode.

We can now add a delay time if we want the sensor to be delayed before being turned on then we will click on the Finish button to complete the new Siren Action Wizard as shown in the screen shot above.

	Action							
Action Type	Action Name			Action Information				
😺 Siren	Siren 1		Siren Port 3: Until Acknowledged					
	ſ	Create Duplicate	Edit Remove					

Now we can see our new Siren Action has been created and is now in our Actions listing ready to be linked up to a sensor and notification on the unit.

## 4. Link Sensor to Siren Action

to complete your network			RF				
Location: System Location							Current System Time: 26/07/2012 14:52:12
Summary	Мар	Sensors	Notification	Access Control	Settings	Applications	Help
				Link Sensor To Act	tion		
Notification Menu							
Begin Notification Wizard		Link Sensor To Action	Escalation				
Action							
Link Sensor To Action		Host Name	Sensor Name		Action on Status		Action Name
Link School To Hendel			-				•
View Notification Log			Create	Edit Create Esc	Remove		
Netflecter Archine							
Nourication Analyzer						<b>F</b>	
Help			import notificat	tion from file Vybrat Soubor 5	oubor nevybran import	Export	
This is an overview of all configured Sensor Actio Links. From here you may create, edit and remo Sensor Action Links. Select your desired Sensor Action Links) before making a choice	we						

Now that we have created our Siren Action we would then need to link a sensor to this action and also a notification. In this example we will link our Siren & Strobe Action to a Smoke Sensor that has already been connected and setup on one of the sensor ports of the RAMOS Ultra unit.

We first click on the "Link Sensor To Action" link in the left column then click on the "Create" button that will launch the "Link Sensor To Action" Wizard as shown in the screen shot above.

Note: Please see the Smoke Sensor user manual on how to setup this sensor on the RAMOS Ultra.



After the Link Sensor To Action Wizard is started in our first screen shown above we will first select the Module that our sensor is connected to, then select the sensor in the Sensor field. In this example again we are using the Smoke Sensor so we highlight this sensor and click the Next button as shown.

			Edit Sensor Link	
Link Sensor To Action	Escalation			
Statu Critical Normal Sensor Error	15	<b>)</b> ⊏∕	Action Siren 1	Action Filter Siren
		Cancel	Sack Finish Advanced Mode >>	

We then will select the Status, and then choose our new Siren from the Action listing which we had previously created and finally clicking on the "Finish" button as shown in the screen shot on the previous page.

		Link Senso	or To Action			
Link Sensor To Action	Escalation					
Host Name	Sensor Name		Action on Status		Action Name	
🗹 Main Module	Smoke Detector Port 7	$\Box$	Critical Sensor Error	$\Box$	Siren 1	
Create Edit Create Escalation Remove						
Import notification from file vyorat soubor Soubor nevybran Import Export						

Now we can see in our list of the sensors linked to actions we have our Smoke Sensor linked to our Siren Action so when the Smoke Detector is activated this will trigger the Siren & Strobe Sensor.

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**Note:** You can also add other Action Notifications to this for example an email, SMS or voice call alert. Please see each separate manual for each of the notifications Actions.

#### This concludes the Siren & Strobe User manual.

Please contact <u>ramos@conteg.com</u> if you have any further technical questions or problems setting up your modem or your alerts.

# **Thanks for Choosing RAMOS!**

