

www.AKCP.com

SecurityProbe 5ES-X20/X60 User Manual

Help Version updated till firmware 403H

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1) Introduction

What is securityProbe 5E "Standard"?

The securityProbe-5ES Standard integrates over 10 years of environmental monitoring experience with the latest technology to push the boundaries of disaster protection. Now you can sense and see problems before they lead to business disruptions. It is a high speed, accurate, intelligent monitoring device, featuring a completely embedded host and Linux Operating System. The design is based on our successful securityProbe 5E, but without the camera inputs. This gives you everything you need and nothing you don't!

AKCP has prided itself on bringing a low cost, easy to use monitoring solution to market with the securityProbe-5ES.

What's the difference between the securityProbe 5ES and the securityProbe 5ES-X20?

The securityProbe 5E-X20 has the 8 RJ-45 intelligent sensor ports AND has 20 extra dry contact inputs, where the securityProbe 5E only has the 8 RJ-45 sensor ports. More on these extra dry contacts in the sections below.

How to use this manual

This manual is meant to provide the user with a step by step guide on how to configure and set up their unit. It utilizes screen shots in an effort to make things simpler for the user to follow. It is split up into sections that form "mini tutorials". These cover the basic set up and common configurations of the unit, and give an introduction to its most useful features.

At the end of the manual there is a FAQ section that provides some further in-depth information regarding specific set ups and answers some commonly asked questions. If you need any further information or help with using your unit then please contact us on support@akcp.com and one of our technical support staff will be only to pleased to help you with any information you require.

Package Contents

Your Securityprobe-5ES package contains the following items:-

- 1x Product CD
- 1x 5ft Crossover cable
- 1x THS00 with 5 ft straight cable
- 1x 7.0 9 V, 2.5 A power supply
- 2x Brackets for rack mounting
- 1x Blue quick-start guide.



Front and rear panels

securityProbe 5ES (see further below for X20 unit)





Fig 1 &2. Front panel (Note: Units shipped after February 2013 will have the two expansion ports on the front panel)

The front panel has several LEDs which display the units status and notify you as to its activity.

1. Power LED

When the unit is powered up the power LED will be lit continuously. If the power LED is flashing then it indicates a problem with the CPU. If you notice this then please contact us on support@akcp.com

2. Ethernet LED

The **Activity** and **Link** LEDs indicate network connectivity and activity. The Link LED will light up when there is a network connection present. The activity LED will flash when there is network traffic being sent or received by the unit.

3. Status / Online LEDs

These are numbered 1 - 8. They are used to indicate the connectivity status of the sensors connected to each port. These LEDs also can be used to indicate system status when undertaking various operations.



- 1. The LEDs will indicate the progress of an upgrade. The red LEDs will move from left to right to indicate activity, and the green LEDs will indicate overall progress of the upgrade. When all the red lights are off and all green are on the upgrade / recovery process is complete.
- These lights will indicate if the unit is operating in safe mode. This is when the unit loads the Operating System (OS) with a minimal set of drivers. If your device enters safe mode after rebooting then please contact us on support@akcp.com
- 3. The unit may enter recovery mode if a firmware upgrade has been incomplete. This will be indicated by the unit displaying a continuously lit row of red LEDs. If this happens please contact us on support@akcp.com

4. Mic

The mic is a small hole for access to the internal microphone. This can be used as a sound sensor (or an external mic can be used)

5. Expansion Ports

There are four expansion ports numbered from E1 - E4. These are expansion Ports for connecting either the 8port expansion or 16 dry contact expansion modules.

Units shipped after February 2013 have the two expansion ports E-1 and E-2.

6. Removable SD slot

This slot so where you can place your SD card which can store data such as pictures taken from the CCTV camera, sounds recorded from the internal microphone, and also the current firmware of the unit.



Fig 2. Rear panel.

The rear panel of the unit is home to various ports and connections. The functions of these are as follows :-

1. Reset button

The black tact switch button is used to perform the following functions

1. A single press will announce the IP address of the unit. This is audible through the internal speaker. It also broadcasts the IP address to the IPset program.



- 2. Turns off password checking when accessing the web based interface (hold down for 7 seconds)
- 3. To reboot the unit into the firmware upgrade mode (hold down for 12 seconds)

2. Sensor ports

There are 8 RJ45 ports numbered from 1 - 8. These are for connecting AKCP intelligent sensors to the unit.

3. USB port

The unit is equipped with one USB 1.1 port. This can be used, for example, to connect a USB GPRS/GSM compatible modem, a USB WiFi dongle or USB Bluetooth dongle.

4. Mic Out

This is used to connect an external microphone for voice modem applications.

5. Audio in / out

The in is used to connect an external microphone, the output for external speakers.

6. RS485 Port

Used for Modbus connectivity. We support Modbus master or slave.

7. Power Connector

This is a 7.5V DC plug. We recommend you using a 7.0 – 9 V, 2.5 A power supply.

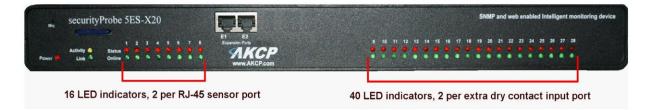
8. Ethernet Port

This RJ45 port is used to connect your unit to the network.

9. External ground

The EXT. GND can be used to external ground the unit.

securityProbe 5ES-X20





20, 2 wire dry contact inputs

8 RJ-45 intelligent sensor ports



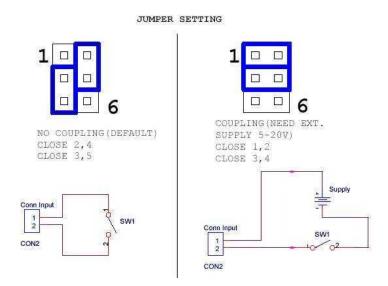
securityProbe 5ES-X20 20 Extra Dry Contact Inputs

The 20 extra dry contact inputs on for example, the securityProbe 5ES-X20, (or securityProbe 5ES-X60) can be configured as **inputs only** up to 5 Volts in normal operation. In opto-isolation mode they can input up to 30 Volts DC. This will protect these inputs and the unit from high voltages and spikes.

Opto-isolators provide complete electrical separation between the securityProbe 5ES-X20 and the dry contact. The base units are therefore protected against possible large voltage spikes caused by lightning for example.

The figure below shows the JUMPERS (on the dry contact board) set up to provide optoisolators support. Opto-isolators provide complete electrical separation between the securityProbe 5ES-X20 and the dry contact.

Please refer to the rear panel of the securityProbe 5ES above for the other connections on the rear panel as they are exactly the same in functionality.



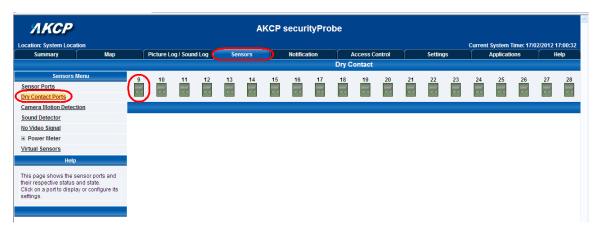
The OID for the extra dry contact inputs is:- .1.3.6.1.4.1.3854.1.2.2.1.18.1.3.<port>

Extra dry contact input practical applications:

The extra dry contact inputs can be used to monitor many types of equipment, for example, you can run the connection from warning lights on alarm panels to the dry contact inputs, so that when the warning light on the alarm panel is activated, the dry contact is triggered in the units web interface, thus allowing you to send notifications via emails or SNMP traps.



securityProbe 5ES-X20 extra dry contact web interface setup



First login to the securityProbe 5ES-X20 web interface, then navigate to the Sensors Page, then click on the Dry Contact Ports link in the left hand column. You can now click on the dry contact port to setup that port as shown in the screen shot above.



In the Normal tab settings we can see that the sensor is currently Offline, so to enable the dry contact port we would click on the Offline button.



ЛКСР					Ał	(CP	secur	ityPro	be										
Location: System Location															Current	System	Time: 17/	02/2012 1	7:02:49
Summary Map	Pict	ture Log / Sour	nd Log	Sens	ors		Notifica	ition	4	lccess C	ontrol		Setting	js		Applicat	ions	H	lelp
									Dry C	ontact									
Sensors Menu	9	10 11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sensor Ports	-																		
Dry Contact Ports					to the		No. I Au					To Do		he he			The state		the line
Camera Motion Detection								D	y conta	act Port	9								
Sound Detector				Normal	Settings	4	Advance	l Settings	Co	ntinuous	Time Se	ttings	Minimu	ım Time	Settings				
No Video Signal								ensor Nar		contact I	Dort 0					-			
Power Meter							3	Stat	_	Critical	Porta								
Virtual Sensors							Sone	or Curren	_	l Online									
SNMP OID							Sells	or curren		Onime									
Get SNMP OID					Descri	ption of	Status V	hen Norn	al Hig	h									
Help					Descri	ption of	Status V	hen Critic	allov	v									
This page shows the sensor ports and their respective status and state. Click on a port to display or configure its settings.							Q	ormal Sta	te	losed/GNI Reset	_	en/+5 Volt	\$						
Helpful Suggestion																			
Continuous Time for Sensor One way to eliminate false warnings in an unstable temperature ennvironment, is to add time in the continuous time to report feature here.																			
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 seconds.																			

Now we can see the dry contact input is now Critical and we can set how we require the Normal State to be in as shown above. Either in the Closed GND or Open +5VDC. We can also rename our normal and critical state of the input.

<i>АКСР</i>						A	КСР	secur	ityPro	be										2
Location: System Location																Curren	t System	Time: 17/)2/2012 1	7:03:26
Summary Map	P	Picture Lo	og / Sound	d Log 🍸	Sen	sors		Notifica	tion	A	ccess Co	ontrol		Setting	S		Applicati	ons	Н	elp
										Dry C	ontact									
Sensors Menu Sensor Ports Dry Contact Ports	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Camera Motion Detection									Dr	y conta	ct Port	9								
Sound Detector					Norma	I Setting		Advanced	Settings	Co	ntinuous	Time Se	ttings	Minimu	m Time	Settings				
No Video Signal									_											
Power Meter								Se	ensor Nan	e Dry	contact P	Port 9								
Virtual Sensors									Statu	IS Norr										
SNMP OID								Sens	or Current	ly 💶	Online]								
Get SNMP OID						Descr	ption of	f Status W	hen Norm	al Higi	ı									
Help						Descr	iption of	f Status W	hen Critic	al Low	1									
This page shows the sensor ports and their respective status and state. Click on a port to display or configure its settings.								N	ormal Sta	te OCI Save	osed/GNE Reset		n/+5 Vol	ts						
Helpful Suggestion																				
Continuous Time for Sensor																				
One way to eliminate false warnings in an unstable temperature ennvironment, is to add time in the continuous time to report feature here.																				
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 seconds.																				

Now we can see that the dry contact input now is in the normal state as shown in the screen shot above.



<i>АКСР</i>						Α	KCP	secur	ityPro	be										
ocation: System Location																Current	System 1	lime: 17/0	2/2012 1	7:04:
Summary Map	P	Picture Lo	og / Soun	d Log 🍸	Sen	ISOTS		Notifica	tion	A	ccess Co	ontrol		Setting	s		Applicati			lelp
										Dry Co	ontact									
Sensors Menu	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28
Sensor Ports			20. 20											22		24				
Dry Contact Ports			10.00	10 10		10 (0)	10.00	1.0	1.0	100 000		10.00	10 10	10.00		10.00	10 10	10.00	10.000	
Camera Motion Detection									D	y conta	ct Port	9								
Sound Detector					Norma	al Setting	is 🔰	Advanced	Settings	Col	ntinuous	Time Set	tings	Minimu	m Time :	Settings				
No Video Signal																				
Power Meter								E	nable Gra	oh 🔿 Oi	n 💿 Off									
Virtual Sensors										Don	up Winde	ws on S	ensor Na	mo						
SNMP OID								s	ensors U		up wind	W5 011 3								
Get SNMP OID		Sensors URL Open link in Orrent Windows New Windows																		
Help		Filter Status () Enable () Disable																		
This page shows the sensor ports and their respective status and state.												Disable								
Click on a port to display or configure its settings.								Enabl	e Calenda	ir Ooi	n ℗Off									
Helpful Suggestion										Save	Reset									
Continuous Time for Sensor	-	-			-			-												
One way to eliminate false warnings in an unstable temperature ennvironment, is to add time in the continuous time to report feature here.																				
Minimum Time Status																				
Prevents the status from fluctuating within the time set. Eg. Sensor can only show high critical state once within 3																				

If we click on the Advanced Tab, we can set the graphing to on, the sensor URL, set the Filter Status and enable the Calendar. (More on the Sensor URL and Filter Status in sections #)

2) Installation

1. Setting up the IP address

Every unit is shipped with the default IP address of **192.168.0.100** First we will go through the process of changing this IP address to fit your own network configuration.

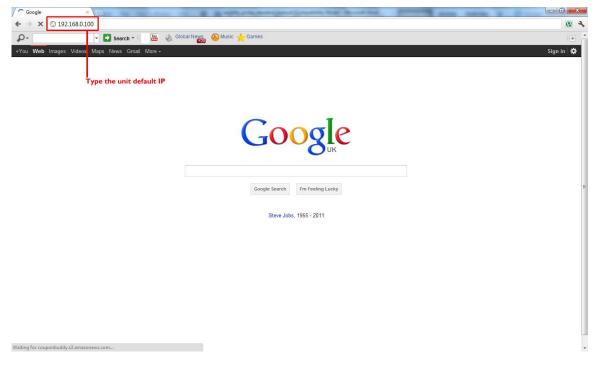
Ensure the following items are available to you before starting:-

- 1. RJ45 CAT5 crossover cable with RJ45 male connection
- 2. A PC with Ethernet card or LAN socket.
- 3. Power socket for the unit to connect to

a) Connect the unit via the Ethernet port of the unit to your computers LAN or Ethernet port with a CAT5 crossover cable.

b) Open a web browser and type the default IP address, hit enter.





In some cases your computer might not be able to connect to this default IP address. In this situation you need to set up your computers routing table to allow access to this. See the appendix on how to setup this.

c) You will now be presented with the following screen. The default password for Admin is "public". To make your unit secure and change the password.

AKCP securityPr	robe 5ES			
				Current System Time: 07/01/2000 13:06:25
Log In				
Username Password Log	here	r password	and	username
	Log In Username Password Lo	Username Enter	Log In Username Enter password Password Login	Log In Username Enter password and Password Login

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d) Next the home page will be displayed. It will look similar to this.

ation: System Location								Current Syste	m Time: 01/01/2000 12:5
Summary Map	Ύ,	Sound Log	Sensors	Notificati	on	Access Control	Settings	Applica	tions Help
Summary Setting					Sensor Info	1.1.000000000			
Layout Setting		Host Name	<u></u>	Type 🔺 🔻		Sensor Name 🔺 🏹		Reading 🔺 🎽	Status 🔺 🔻
Sensor Filters	9	Main Module		Module		Main Module		÷	Normal
					Sensors st	atus will be reloaded in 07 secs			
Sort by : Host Name 💌					System Log	(2 messages)			
Advanced Filter	1	2000/01/01 12:24:0							
⊞ Display Status	2	1999/12/31 13:11:4	5 System power-or	n boot up					
Display Sensor Type							lick the "Sett	ings" tab	
🗷 Display Host Name									
Search :									
Apply Filter Clear Filter									
Expand All Modules Collapse All Modules									
Expand Air modules					System L	og will be reloaded in 08 secs			
Reload Sensor Interval : 10 secs. Appl						-			
Reload Sensor Interval : 10 secs. Appl									
Syslog Filters									
ajalog mitera									

e) Click on "Ethernet network" from the list on the left frame of the page.

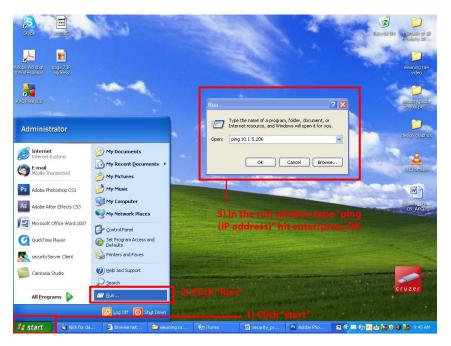
ЛКСР			AKC	P securityProbe	5ES				
Location: System Location								Current System Time: 01/01	1/2000 12:45:13
Summary	Мар	Sound Log	Sensors	Notification		Access Control	Settings	Applications	Help
				E	Ethernet N	Network			
Setup				Default Interface	Use this	s interface as defa	ault gateway		
<u>General</u>				Use DHCP					
Connectivity				IP Address	10.1.5.87		2. Enter new IP here		
Ethernet Network		I. Select this option		Subnet Mask	255.255.2	255.0			
Wifi Network				Gateway IP Address	10.1.5.5				
Modbus				Domain Name Server	10.1.5.5				
SNMP				Ethernet MAC ID	00-0B-DC-	-00-5A-5C			
SNMPTraps				Ethernet Media Mode	100baseTx	x-FD, negotiated, li	nk ok		
Bluetooth					Save	Reset			
Dial-In Modem									
				3 Cli	ck "Save	e"			
Dial-Out Modem				5. 61	ch Sav				
OpenVPN Client									
Serial to Network Prox	Ω.								
Server Integration									
System Administrator									
Help									
This page allows the syster configured centrally by DHC									

Note. The unit ships with DHCP disabled. If you wish to use a DHCP server to obtain the IP address then see the "Using DHCP" section of the FAQ>

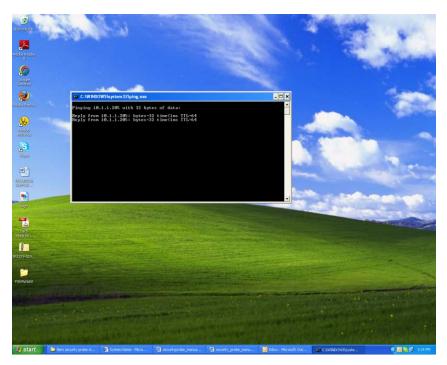


2. Testing the new IP address with the "ping" command

Once you have assigned the new IP address use the "ping" command to test the unit. This can also be used as a diagnostic tool in order to check whether your unit is connected to the network.



After hitting "enter" you will get an MS DOS prompt window that will show the ping results (as below). If unsuccessful you will get a message saying "request timed out". This indicates either an incorrect IP address or a unit that is not connected to the network.





3. Firmware upgrade

Ensure you are running the latest firmware. You will also need to download the latest firmware from our website (<u>http://www.akcp.com/company/firmwareupdate.htm</u>). Log into our webpage using your MAC address, this is found on a sticker on the base of the unit. After the download navigate back to the web based interface (units IP address. This manual will refer to the DEFAULT IP address, 192.168.0.1 you need to substitute this for your own IP address if you have changed it)

This tutorial provides you the information needed to upgrade the firmware.

To get to the starting point of this tutorial:

- Log in as administrator
- Click on the settings tab

a)

ation: System Location Summary	Map	s	ound Log	Sensors	Notifica	tion	Access Control	Settings		t System Time: 01/01/200 Applications	00 12:59 Help
Summary		T T				Sensor Info					
Layout	Setting		Host Name	A	Туре 🔺 🔻		Sensor Name 🔺 🔻		Reading 🔺 🔻	Status 🔺	
Sensor	Filters	Œ	Main Module		Module		Main Module		-	Norma	al
-						Sensors st	atus will be reloaded in 07 secs				
Sort by : Host	Name 💌					System Log	(2 messages)				
Advance	ed Filter	1	2000/01/01 12:24								
Display Status Display Sensor Type		2	1999/12/31 13:11	45 System pow	er-on boot up		Cli	ck the "Se	ttings" tab		
E Display Host Name											
Search :											
Apply Filter	Clear Filter										
Expand All Modules	Collapse All Modules										
Expand An modules	compse An modules					System L	og will be reloaded in 08 secs				
Reload Sensor Interval :	10 secs. Apply										



b)

AKCP			AKCF	securityProbe	5ES				
Location: System Location								Current System Time: 01/0	
Summary	Мар	Sound Log	Sensors	Notification	<u> </u>	Access Control	Settings	Applications	Help
					stem Mair	ntenance			
Setup				Clear Syslog	Clear				
E General				Clear RRD datalog	Clear				
Connectivity				Restore Original Settings	Restore	e 📃 🔲 Keep present n	etwork setting		
Ethernet Network			Clear All User Data and I	Restore Original Settings	Clear	 Keep present net	-		
Wifi Network				I Settings To Backup File	Backup				
Modbus			Duckup A	r Settings to Backup the	Duckup	Brows			
SNMP			Restore All S	ettings From Backup File	Restore				
SNMPTraps					support@		etwork setting		
Bluetooth			Send C	onfiguration To Support	Send	Click here to setup	SMTP Server		
Dial-In Modem									
Dial-Out Modem					-	are Upgrade Check Update			
OpenVPN Client	_			System Firmware	Upgrade	Check Update			
Serial to Network Proxy									
Server Integration				3. C	lick "U	pgrade"			
System Administrator	e	 Click on System Ac 	Iministrator						
Password Checking									
User & Group Manageme	<u>nt</u>								
System Maintenance		2. Select "System Mai	intenance"						
Services and Security									
System Log									
Heartbeat Messages									

c) You will then be presented with this pop up :-



Click OK. The unit will then reboot in safe mode. After reboot you will be redirected to the safe mode web interface. This can take some time, so please be patient. The page will display the following message while rebooting

<u> АКСР</u>			AKCP s	ecurityProbe 5ES				
Location: System Locatio	n						Current System Time: 02/01/2	000 09:24:47
Summary	Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
			Fin	mware Upgrade				
				Rebooting				
			@1001_20	00 AKCP All rights reserved.				
			6/33/-200	And An Ignia reserved.				

d) Once the unit has rebooted you will be viewing the following page. Follow these instructions.



AKCP securityProbe 5ES	Safe Mode v. 3.
BOOT: FIRMWARE UPGRADE	
Firmware Upgrade	
1. Download the firmware file from www.akcp.com on to your local hard disk. 2. Enter the firmware file name 3. Upgrade Click here to navigate to the upgrade Click "Upgrade" 5. Click "Upgrade"	
Upgrade status	
Waiting to upgrade firmware	

e) during the process you will see the following messages :-

Upgrade status
1%
Upgrading mega firmware
This is the second half of the upgrade process. It will take approximately 30 minutes. When this is complete the upgrade status will say "Complete" and the system will reboot automatically. During the upgrade process, the red LEDs run from left to right continuously. The green LEDs show the percentage of the upgrade process.

f) The unit will then reboot. The process is complete when the LED's are back to their <u>"normal" status</u>.



Multi-users and groups setup

Login to the securityProbe or securityProbe 5E with the Administrator password, the default will be "public" if you have not changed this yet.

Click on the Settings page, then System Administrator then User & Group Management as shown in the screen shot below:

<u>Note:</u> The following screen shots may appear small and hard to read. Please use the zoom feature in your PDF reader program to increase the size of the page to better view these screen shots.

1) Group Setup

ЛКСР			AKCP s	ecurityProbe 5ES				
Location: System Locatio	n (Current System Time: 02/0	1/2000 09:36:18
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gr	oup Management			
Setu	p					1. Cli	ck "Settings	
<u>General</u>		Users	Groups	3. Click th	ne "Groups" tab		on ootango	
Connectivity		User Name 🔺 🔻	Group Name A V		Description		Login session timeout (minutes)	
Server Integration		Admin *	Administrator	Buil	t-in account for administrator		60	-
😑 System Administrator	r i	User *	User		Built-in account for user		60	
Password Checking User & Group Manae System Maintenanc Services and Secur System Log	gement 2. Clic	* Cannot remove. ok "User & Group Mang	gement"	Add Re	move Properties			
Heartbeat Message	s							
Help This page allows enablin changing of the User and	ng, creation and							
				©1991 - 2000 A	IKCP All rights reserved.			

This will take you to the Groups page shown below:-

АКСР			AKCP	securityProbe 5ES				
Location: System Location							Current System Time: 02/01/2	
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gr	oup Management			
Setup	,							
General		Users	Groups					
Connectivity			Group Name 🔺 🔻			Description		
Server Integration						-		
😑 System Administrator								
Password Checking				Add Re	move Properties			
User & Group Manag	ement			Click "Add"				
System Maintenance	2							
Services and Securit	ty .							
System Log								
Heartbeat Messages								
Help) — — — — — — — — — — — — — — — — — — —							
This page allows enabling changing of the User and	g, creation and Admin password.							
2								
				©1991 - 2000 A	KCP All rights reserved.			

Now click on the "Add" button to add your groups as shown in the screen shot above.



<u> АКСР</u>			AKCP	securityProbe 5ES				
Location: System Location	n						Current System Time: 02/01	1/2000 09:43:38
Summary	Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gro	oup Management			
Setu	p							
<u>General</u>		Users	Groups					
Connectivity		Group Setup						
Server Integration		Group Setup			_			
🗟 System Administrator	r		Group Name System G	uest				
Password Checking	1		Descritption Guest of the	he system				
User & Group Mana	gement			Contraction of the	-			
System Maintenanc	e .			Object		Modify	View	
Services and Secur	ity		Us	er Management		[[]]		
System Log				Connectivity				
Heartbeat Message	s			Systems				
Hel				nsors and Maps Notifications		E		
				e Sensors and Notification				
This page allows enablin changing of the User and	ng, creation and							
				Cancel	Finish			
								<u></u>
				©1991 - 2000 A	KCP All rights reserved.			
1								

Enter your group name for example we have added a group named "System Guest" and entered our description.

Now check the objects within the web interface that this group will be able to Modify and View. Then click the "Finish" button to save your group.

АКСР			AKCP s	securityProbe 5ES				
Location: System Locati	on						Current System Time: 02/01/2	000 09:45:33
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gro	oup Management			
Set	up							
General		Users	Groups					
E Connectivity			Group Name 🔺 🔻			Description		
Server Integration			System Guest			Guest of the system		
😑 System Administrato	r		New group shown	here				
Password Checkin	a			Add Rei	Properties			
User & Group Mana	igement							
System Maintenan	ce							
Services and Secu	rity							
System Log								
Heartbeat Message	25							
Hel	P.							
This page allows enabli	no, creation and							
changing of the User an	d Admin password.							
4								
				©1991 - 2000 A	KCP All rights reserved.			

Now you can see the new group "System Guest" has been added to our group list as shown in the screen shot above.



Location: System Location							Current System Time: 02/0	1/2000 09:47:
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & G	roup Management			
Setup		000						
± General		Users	Groups	i i i i i i i i i i i i i i i i i i i				
E Connectivity			Group Name 🔺 🔻			Description		
Server Integration			System Guest		Gue	est of the system		
System Administrator								
Password Checking				Add	emove Properties			
User & Group Managen	nent							
System Maintenance								
Services and Security								
System Log					After highlightir	a the aroun click	"Properties" to modify	settings
Heartbeat Messages					, nor nginging	ig the group onen	rioportico to mouny	oottingo
Help								
This page allows enabling, o								
changing of the User and Ad	dmin password.							
	- 3- -							
				@1991 - 2000	AKCP All rights reserved.			

If you wish to modify your group settings, highlight the group you wish to modify by clicking on it, then click on the "Properties" button as shown in the screen shot above.



2) User Setup

ЛКСР			AKCP	securityProbe 5ES				
Location: System Location							Current System Time: 02/01/2	
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gro	oup Management			
Setur			_					
General		Users	Groups					
E Connectivity		User Name 🔺 🔻	Group Name 🔺 🔻		Description	L	ogin session timeout (minutes)	
Server Integration		Admin *	Administrator	Buil	t-in account for administrator		60	
😑 System Administrator	(User*	User	Built-in account for user		60		
Password Checking		* Cannot remove.						
User & Group Manag	<u>iement</u>							
System Maintenance	2			Add Remove Properties				
Services and Securit	ty							
System Log								
Heartbeat Messages	1							
Help								
This page allows enabling	o. creation and			After selec	ting "Users" Click "Add	d"		
changing of the User and								
-				- 100 L 0000	KOD 44 - 14			
				©1991 - 2000 A	KCP All rights reserved.			

Click on the Users tab then click the "Add" button to add the new Users to your groups as shown above.

<u> АКСР</u>			AKCP s	ecurityProbe 5ES				
Location: System Locatio	n						Current System Time: 02/01/	2000 09:54:49
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gr	oup Management			
Setu	Þ							
General		Users	Groups					
E Connectivity		User Setup						
Server Integration			er name, password, descritption	and then select the member	of the group.			
🖻 System Administrator	6							
Password Checking				U	ser Details			
User & Group Manad	<u>tement</u>		User Nam	BobSmith	-	.	Change Password	
System Maintenanc	<u>e</u>		Passwon		-	User Cannot	Change Password	
Services and Securi	ty		Confirm Passwor		-			
System Log			Description					
Heartbeat Message	5		ogin session timeout (minutes					
Help			Member of Grou		Group Setup			
This page allows enablin changing of the User and				Cancel	Finish Click "	Finish" when you ha data entr		
	_							
				©1991 - 2000 A	KCP All rights reserved.			

Now enter your User details as shown above. In our example we have entered Bob Smith as our Guest into our "System Guest" group. We have also added the option so that this user cannot change his login password. After addition your users for each group click the "Finish" button to save each user.



Sound Log Users User Name ▲▼	Sensors Groups	Notification User & G	Access Control	Settings	Current System Time: 02/01/2 Applications	Help
	Groups	User & G	roup Management			
	Groups					
	Groups					
User Name ▲▼						
	Group Name 🔺 🔻		Description	Lo	ogin session timeout (minutes)	
Admin *	Administrator	Bu	ilt-in account for administrator		60	'
User*	User		Built-in account for user		60	
BobSmith	System Guest 60					
* Cannot remove.						
		Add	emove Properties			
		@4004_2000	AKCP All rights reconved			
		@1991 - 2000	ARCF An rights reserved.			
	BobSmith * Cannot remove.		* Cannot remove.	* Cannot remove.	* Cannot remove. Add Remove Properties	* Cannot remove.

Now as you can see the new user has been entered into our list of Users.

АКСР			AKCP se	curityProbe 5ES	3			
Location: System Location	10						Current System Time: 02/01/	2000 09:58:18
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gr	oup Management			
Setur								
General		Users	Groups					
Connectivity		User Name 🔺 🔻	Group Name 🔺 🔻		Description	Logi	n session timeout (minutes)	
Server Integration		Admin *	Administrator	Bui	It-in account for administrator	£	60	-
🖻 System Administrator		User*	User		Built-in account for user		60	
Password Checking		BobSmith	System Guest		Guest		60	
User & Group Manag	ement	* Cannot remove.						
System Maintenance	1							
Services and Securit	¥.			Add Re	Properties			
System Log					After highlighting your	user select "Prop	perties" to modify settin	ngs.
Heartbeat Messages								
Help								
This page allows enabling changing of the User and								
	anni pacenera.							
				©1991 - 2000	AKCP All rights reserved.			

To modify a users setting, first highlight the user by clicking on it, then click the "Properties" button as shown in the screen shot above.



Services and Security

Active Services Application (disabling)

Notification	Access Control	Settings
Service	s and Security	
Activ	ve Services	
☑ Se ☑ Te	igios ecure Shell Inet eb Interface (HTTP)	

You can enable or disable the Nagios, Video Conferencing, Secure Shell and Telnet applications running on the unit thus making the unit more secure as shown in the screen capture above.

Closing or changing port	s disabling HTTP	and enabling HTTPS
--------------------------	------------------	--------------------

Notification	Access Control	Settings
Se	rvices and Security	THEASTRE
	Active Services	
	 Nagios Secure Shell Telnet Web Interface (HTTP) 	
Active Services	Secure Web Interface (HTTPS	ilable Port) ilable Port

You can also close or change the ports used to access the units web interface, disable HTTP and enable HTTPS only.

The "s" at the conclusion in HTTPS stands for secure. This SSL/TLS connection type is used primarily for high-value sites or 'pages', to elevate the potential of being unreadable by anyone but the end-points.



One benefit is the traffic between client and the securityProbe is not cached along the various units as it moves across the 'Net, and so can't be accessed by someone after the connection is terminated.

The SNMPv3 SSL security feature

Notification	Access Control	Settings
Se	rvices and Security	
	Active Services	
Active Services	Secure Web Interface (HTTPS)	rotocol Version 3 (SNMPv3)

Use the SNMPv3 SSL (Secure Sockets Layer) which is the standard security technology for establishing the encrypted link between the securityProbe in our case and the web browser. This link ensures that all data passed between the securityProbe and the browser remains private and integral.

SNMPv3 provides important security features:

- * Confidentiality Encryption of packets to prevent snooping by an unauthorized source.
- * Integrity Message integrity to ensure that a packet has not been tampered with in transit.
- * Authentication to verify that the message is from a valid source.



😻 Upload SSL Key - Mozilla Firefox	_ 🗆 🗙
http://10.1.1.162/upload5K.php?PHP5E55ID=82e1629ed458be46bb71a6f4dd38eac	•
Select ssl key	<u> </u>
File : Browse Add File file name must be userkey.pem	
Close	
	-

Active Security

Active Security					
Active Security	 Allow Users to Acknowledge Alarms Announcement IPAddress When Login 				
Save	Reset				

In the Active Security section you can allow Users who are logged into the units web interface to "Acknowledge" alarms, which is normally reserved only for the Administrator.

When the unit boots up, it will announce the IP address that it has been configured with. As an added security feature this announcement can be disabled in the above screen shot, so that the IP address remains unknown.

The NAC or Network Access Control security feature



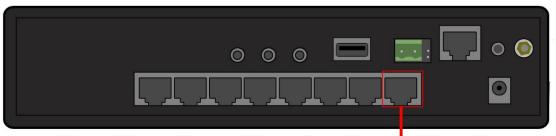
Network Access Control						
Network Access Control	Coff © On ←					
Access Policy	Only allow access to the host below Only deny access to the host below					
Allow List	Address Add					
Save Reset						

The NAC or Network Access Control feature allows you to restrict access to the web interface for only certain IP addresses, or deny access to the web interface for only certain IP addresses.

4. Setting up a sensor

In this section we will now go through the basic set up of a sensor. We will focus on the AKCP temperature sensor; however this basic set up process is applicable to all of our sensors. If you require information on specific functions of a particular sensor then please download the manual for that sensor from our website, or locate it on your product CD.

a) Plug the sensor into one of the RJ45 "intelligent sensor ports" on the rear panel of the unit. In this example we will use port 1.



Connect Sensor to one of the ports on the rear 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. This is shown below.

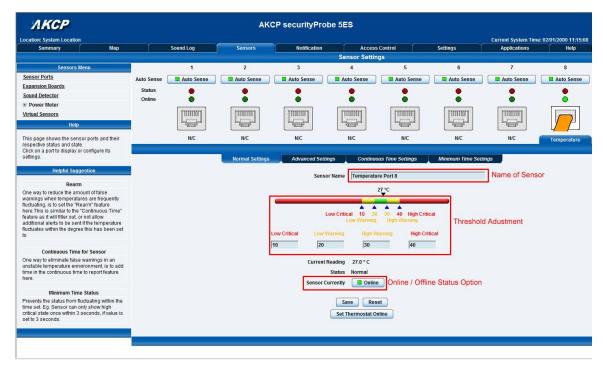


Summary Map	Sound Log	Sensors		lotification	Access Control	Settings	Applications	ne: 02/01/2000 11:12: Help
Summary Setting			_	Sensor In	formation			
Layout Setting	Host Name	A -	Type 🔺 🔻		Sensor Name 🔺 🔻		Reading 🔺 🔻	Status 🔺 🔻
Sensor Filters	Main Mod	ule	Temperatu	re	Temperature Port 8		27.0 °C	Normal
Syslog Filters				Sensors	status will be reloaded in 10 secs			
Sort by : Date				System Lo	og (0 messages)			
Number of display items per page 10 💌								
Advanced Filter	Sen	sor Infori	mation i	s listed I	here			
Display Log Level Display Log Type								
Display Notification								
Display Sensor Type Display Sensor Status								
Apply Filter Clear Syslog				System	Log will be reloaded in 09 secs			
eload Syslog Interval : 10 secs. Apply								

The temperature sensor should be listed, along with its current reading and status. If this is not shown please see refer to the FAQ.

This summary page allows you to quickly see which sensors are connected, their status, view the system log, and also view footage from any connected cameras. We will now go through some of the tools the web based interface provides for getting feedback from the sensors.

c) Now click on the temperature sensors name (indicated in previous screen shot). This will bring you to the following page, the sensors page:-

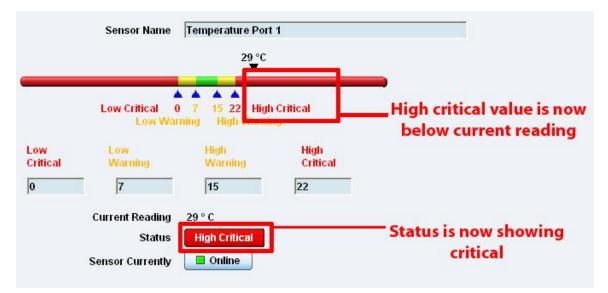


Note: another way of accessing this page is to click on the "sensors" tab at the top of the page.

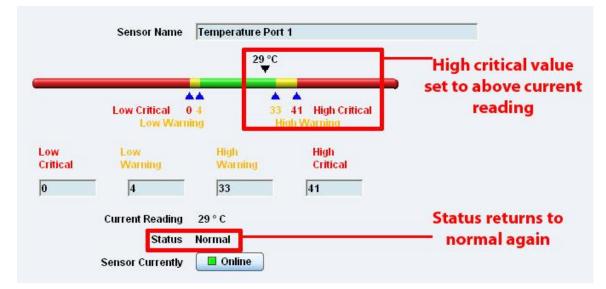


I) Notification thresholds

From this page you can carry out various operations as indicated above. Also view the current status (normal, low critical, high critical etc). In the screen shot above you can see the sensor is indicating a temperature of 29 degrees F, and a status of Normal. If you click on the blue marker arrow indicated above by the "Set the required threshold" label you can drag this marker to reconfigure the thresholds. After dragging the marker click "save" In the next screen shot you can see that this marker has been moved to make a new threshold, and along with it the sensor status has changed.



If the marker is then dragged back to above the current reading temperature you should see the status returns to a normal condition again. *Note: If this does not happen straight away press your browsers refresh button.*



If you wish to take a sensor offline then click on the "sensor currently" button. This will offline the sensor without the need for you to physically unplug it.





Now your page will look something like below after taking the sensor offline.

<u> АКСР</u>				AKC	P securityPro	be 5ES				
Location: System Location	n								Current System Time	: 02/01/2000 11:23:52
Summary	Мар		Sound Log	Sensors	Notification	Acces	s Control	Settings	Applications	Help
						Sensor Setti	ngs			
Sensors I	Menu									
Sensor Ports						Host Name Main	n Module			
Expansion Boards						Save Re	set			
Sound Detector										
Power Meter										
Virtual Sensors										
Help	2		1	2	3	4	5	6	7	8
_		Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sens	e 🛛 🗖 Auto Sense	Auto Sense	Auto Sense
This page shows the sen respective status and stat		Status								
Click on a port to display of settings.		Online		ŏ	ŏ	ē			i i i	ŏ
settings.		Í.								
			N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
				©199	1 - 2000 AKCP All rights	reserved.	The shace	led sensor icon indi	icates that the sen	sor is offline

To bring a sensor back online, select your sensor type from the drop down menu and click "save".

<i>АКСР</i>			AKO	CP securityPro	be 5ES				
Location: System Location								Current System Tir	ne: 02/01/2000 11:26:
Summary Map	<u> </u>	Sound Log	Sensors	Notification	Ac	cess Control	Settings	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	e 🗌 🔲 Auto Se	nse 🔲 Auto Sense	Auto Sense	Auto Sense
Expansion Boards	Status					_			
Sound Detector	Online								
Power Meter		[[
<u>Virtual Sensors</u>	-	TITUTO		THILICO		TITLICO	1 ST		THORN
Help									
This page shows the sensor ports and their		N/C	N/C	N/C	N/C	N/C	N/C	N/C	N/C
respective status and state. Click on a port to display or configure its									
settings.									
				Please reconnect t	e sensor or selec	ct your sensor for thi	s port below.		
	-			Select sensor fe	- 41-10 - 10 - 10 - 10 - 10 - 10 - 10 -	20 mAmp 💂	Save Click Save		
				Select sensor to		20 mAmp v 20 mAmp	Save Click Save		
						Voltage			
					Dig	ital Voltmeter			
			©199	1 - 2000 AKCP All rights		y contact I/O al Sensors			
					Fue	el Level Sensor			
						uid Rope			
						wer obe Switch			
					Rel	lay			
					Ser	curity			
			Select sensor fro	m drop down me	Sm	noke Detector			
ine					Ter	mperature	Internet Protected	d Mode: On	



ii) Advanced sensor settings

By clicking on the Advanced Settings tab you will then see the advanced settings for the sensor.

АКСР	AKCP securityProbe 5ES								
Location: System Location								Current System Time	: 17/02/2012 17:15:42
Summary	Мар	Sensors	Notif	fication	Access Control	Settings	3	Applications	Help
					Sensor Setting	gs			
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	Status						_	·	
Power Meter	Online								
Virtual Sensors				· · · · · · · · · · · · · · · · · · ·					
SNMP OID		[01001100]	[DEADERCO]	01000000	00000001				
Get SNMP OID									
Help		N/C	N/C	N/C	N/C	N/C	Temperature	Water	Dual Sensors
This page shows the sensor ports				_	Dual Temperatu	ure 🔻			
and their respective status and			Normal Settings	Advanced Set		s Time Settings	Minimum Time S	ettings	
state. Click on a port to display or						^			
configure its settings.					Units 💿 Fahrenhe	eit 🔍 Celsius			
Helpful Suggestion					Rearm 2				
neipiui suggesuon				Readin	ig Offset 0				
Rearm				Data Collect	ion Type 🛛 Average 🕞	-			
One way to reduce the amount of false warnings when						-			
temperatures are frequently				Disp	lay Style <a> Basic Style	yle 🔘 Gauge Style			
fluctuating, is to set the "Rearm" feature here. This is similar to the				Check rate of	f change 💿 Enable 🧕	Disable			
"Continuous Time" feature as it						Sisubic			
will filter out, or not allow additional alerts to be sent if the				Enab	le Graph 💿 On 🔍 Of	ff			
temperature fluctuates within the									
degree this has been set to						dows on Sensor Nam	le		
Continuous Time for Sensor					ors URL				
One way to eliminate false				Ope	n link in 💿 Current V	Vindows 🔘 New Wi	ndows		
warnings in an unstable temperature ennvironment, is to				Filte	er Status 💿 Enable 🤇	Disable			
add time in the continuous time to					© Ellubic (Disable			
report feature here.				Enable C	alendar 💿 On 🔍 Of	ff			
Minimum Time Status									
Prevents the status from					Save	et			
fluctuating within the time set. Eg. Sensor can only show high critical					Set Thermostat On	line			
state once within 3 seconds, if									
Minimum Time Status Prevents the status from fluctuating within the time set. Eg. Sensor can only show high critical				Enable C	Save	et			

Advanced mode functions

Dual Temperature 🔻							
Normal Settings	Advanced Settings	Continuous Time Settings	Minimum Time Settings				
	Units	🛇 Fahrenheit 🔍 Celsius					
	Rearm	2					
	Reading Offset	0					
	Data Collection Type	Average 👻					
	Display Style	Basic Style Cauge Style					
	Check rate of change	Cashla @ Disabla					
	Check rate of change						
	Enable Graph	🔘 On 🖲 Off					

Units: changes units from C to F or vice versa





Dual Temperature 🔻							
Normal Settings	Advanced Settings	Continuous Time Settings	Minimum Time Settings				
	Units Rearm Reading Offset Data Collection Type	© Fahrenheit Celsius Average					
	Display Style	Basic Style Cauge Style					
	Check rate of change	© Enable 🖲 Disable					
	Enable Graph	© On					

Rearm:

The Rearm parameter is useful for sensors whose values can vary such as the temperature and humidity sensors.

It is used to prevent the sensor from flickering between two states. For example if the **Warning High** threshold for the temperature sensor is set to 80 degrees and the sensor were to vary between 79 and 80 you could be faced with a very large number of emails, traps, and events logged. The Rearm parameter prevents this by forcing the temperature to drop by the Rearm value before changing the state back to normal. In this example, if Rearm is set to 2 then the sensor would have to drop from 80 down to 77 before the status would change from **Warning High** back to normal.

Dual Temperature ▼							
Normal Settings Advanced Settings	Continuous Time Settings Minimum Time Settings						
Units	◎ Fahrenheit						
Rearm	2						
Reading Offset	0						
Data Collection Type	Average 👻						
Display Style	Basic Style Gauge Style Gauge Style Gauge Style Sty						
Check rate of change	🛇 Enable 🔘 Disable						
Enable Graph	◎ On						

Reading offset:

A calibration tool. If you wish to calibrate the temperature sensor, for example, you could enter an offset value of 5. This would mean if the sensor reads 20 degrees then it would record as 25 degrees. This figure can also be a minus figure (e.g. -5 would show 15 degrees instead of 20)



Dual Temperature ▼							
Normal Settings	Advanced Settings	Continuous Time Settings	Minimum Time Settings				
	Units	🔘 Fahrenheit 🔘 Celsius					
	Rearm	2					
	Reading Offset	0					
	Data Collection Type	Average 🗸					
	Display Style	Basic Style Cauge Style					
	Check rate of change	🔿 Enable : 🔍 Disable					
	Check rate of change	🔘 Enable 🔘 Disable					
	Enable Graph	🔘 On 🔘 Off					
		Popup Windows on Sensor Na	me				
	Sensors URL						
	Open link in	Ourrent Windows O New W	lindows				
	Filter Status	🖲 Enable 🔘 Disable					
	Enable Calendar	🔘 On 🔘 Off					
	Ellable Calellual						
	Save Reset						
	Set T	hermostat Online					

Data Collection Type:

This refers to the data collection from the sensor and how the data is then displayed on the graphs.

There are three options for the collection of data. Average, Highest and Lowest. The default setting is "Average".

When the data collection type is set to "Average" the output graphs for the daily, monthly, and yearly all have the same size on the screen. For the daily graph, each data point on the graph is one data point collected from the sensor. But for the monthly and yearly graph, in order to display more data into the same size as the daily graph, some consolidation on the data is needed. One data point on the monthly and yearly graph is an average of the sensor data in a range.

The maximum and minimum values showing on the monthly and yearly graphs are the value of this consolidated data and not the raw data over that period of that time.



The When the Data Collection Type is set to the Highest setting then you will get the graphing output displaying the sensors highest reading. This is the same for the Lowest setting.

	Dual	Temperature 🔻					
Normal Settings	Advanced Settings	Continuous Time Settings	Minimum Time Settings				
	Units	Fahrenheit Ocelsius					
	Rearm	2					
	Reading Offset	0					
	Data Collection Type	Average 👻					
	Display Style	Basic Style Cauge Style)				
	Check rate of change	🔿 Enable : 🔍 Disable					
	Check rate of change	🔘 Enable 🔘 Disable					
	Enable Graph	🔘 On 🔘 Off					
		Popup Windows on Sensor Na	me				
	Sensors URL						
	Open link in	Ourrent Windows O New W	lindows				
		_					
	Filter Status	🖲 Enable 🔘 Disable					
	Enable Calendar	🔘 On 🔘 Off					
Save Reset							
Set Thermostat Online							

Display Style

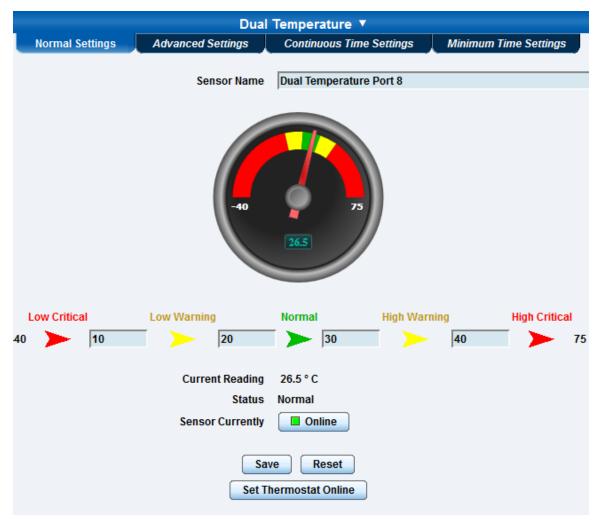
You can keep the sensors "Display Style" in the web interface as the Basic Style which will be the slide bar type or you can change it to the "Gauge Style" type.



	2	3	4	5		
ense	Auto Sense	Auto Sense	Auto Sens	e 🔲 Auto Sens	e 🔳 A	
	•	•	•	•		
	You have selected	the gauge style.			J L/	
	This will allow you to manually edit the sensor status color and description. You will need to save the changes for this to take effect.					
				s	Minim	
			ОК	Cancel		
			Rearm 2			
		Readin	g Offset 0			
		Data Collect	ion Type Aver	age 👻		
		Displ	ay Style 🔘 Ba	sic Style 🖲 Gauge Sty	yle	
		Check rate of	change 🔘 Ena	able 💿 Disable		
		Enabl	Graph a	@ off		

When switching to the Gauge Style type you will first be prompted with the pop up dialog box show above.





You will now see the new display where you can set the sensors threshold levels as shown above.





Dual Temperature 🔻							
Normal Settings Advanced Settings	Continuous Time Settings	Minimum Time Settings					
Units Rearm Reading Offset Data Collection Type	 ○ Fahrenheit [®] Celsius 2 0 Average ▼ 						
Display Style Advanced Status Text and Color	○ Basic Style ◎ Gauge Style	P					
Check rate of change	Low Warning Normal High Warning High Critical Sensor Error						

After clicking on the "Advanced Settings" tab, you can change the text and colors for each sensor threshold as shown in the screen shot above.

Dual Temperature ▼								
Normal Settings	Advanced Settings	Continuous Time Settings	Minimum Time Settings					
	Unito							
	Units	Fahrenheit Ocelsius						
	Rearm	2						
	Reading Offset	0						
	Data Collection Type	Average 👻						
	Display Style	Basic Style Cauge Style						
(Check rate of change	🖲 Enable 🔘 Disable						
Maximu	m acceptance of change	10 💌 %						
	Period of time	5 👻 minutes						
	Direction	Both 💌						
St	tatus when exceeds limit	High Critical 👻						
	Enable Graph	© On						

Check rate of change



When enabling the "check rate of change" feature for this sensor, you can set the rate in a percentage from 1% to 50% over a period of time from 1 to 20 minutes. You can set the direction to Up, Down, or Both and you can set the Status when the limit is exceeded to show either High Critical or Low Critical.

Now you can tie this sensor alert to any notification. This feature is ideal for our Ultrasonic Fuel Level Sensor to prevent theft of fuel or be alerted to leaks in storage tanks for example.

Continuous Time Settings & Minimum Time Settings Tabs

The following advanced functions are for setting the time frame in which the system should delay a notification being triggered when a sensor gives a reading that exceeds the thresholds (high warning, normal, etc).

Continuous Time to Report High Critical: This helps to eliminate unnecessary messages during minor fluctuations. You can set the amount of time to delay a notification of a status change from high warning to high critical. Enter the time in seconds and press the "Save" button. The amount of time that can be entered is between 0 and 65535 seconds which equals approximately 18 hours

Continuous Time to Report High Warning: As above but delays notification for "High Warning"

Continuous Time to Report for Normal: As above but delays notification for return to "Normal" state

Continuous Time to Report for Low Warning: As above, but delays notification for "Low Warning" state.

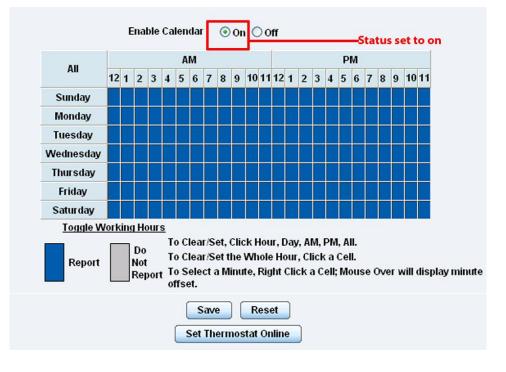
Continuous Time to Report for Low Critical: As above but delays notification for "Low Critical" state.

Continuous Time to Report for Sensor Error: As above, but delays notification being sent for sensor going into an error state.

Example: An airflow sensor or humidity sensor may have temporary drops in readings which are normal operating characteristics; a logical time limit is set to show abnormal conditions.

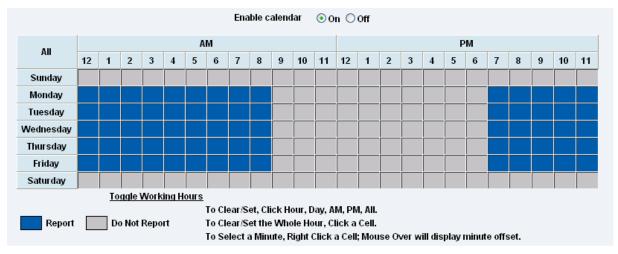
Minimum Time Status Prevents the status from fluctuating within the time set. For example, a sensor can only show high critical state once within 3 seconds, if value is set to 3 seconds.





Enable Calendar: If you select this option then the following will be displayed:-

In our example we wish to monitor an office building between the hours of 7 PM – 9 AM Monday – Friday only. You can see in this picture we have selected the "Do Not Report" option for the hours in which we do not wish to receive any notifications or have any events logged. You change the status of that time frame (Report / Do Not Report) by simply clicking on the square. This will change it from blue to grey, a second click will return it to blue.





1. Using internal Mic as a sound detection sensor

The internal microphone (or an external plugged into the line in jack) can be used as a sound detector.

This tutorial provides you the information needed to setup the internal Mic as a sound detection sensor.

To get to the starting point of this tutorial:

- Log into the web based interface
- Click on the sensors tab

a) First navigate to the correct page in the web interface.

АКСР			AKCP	securityProbe 5E	S			
Location: System Locati	on						Current System Time:	02/01/2000 11:34:56
Summary	Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				So	und Detector			
Sensors	s Menu		Normal Settings	Advanced Settings	Continuous Time Settin	gs 🔰 Minimum Time S	ettings	
Sensor Ports		1. Click Sensors						
Expansion Boards				Sensor Name	Sound Detector			
Sound Detector		2. Click "Sound Detector						
Power Meter								
Virtual Sensors								=
Hel	p							
This page allows you to microphone as a Sound This can then enable th noises, or lack of noise, Notifications. Thresholds are set usin	I Detector. resholds of loud to trigger	С	lick "Advanced Sett	ings"	100			
Helpful Su	ggestion							
Rea	m		Low Critical	Low Warning	Normal High	Warning High C	ritical	
One way to reduce the a			0 🔪 10	20	70	> 80 >	100	
warnings when tempera fluctuating, is to set the ' here. This is similar to th feature as it will filter out additional alerts to be si fluctuates within the deg to	itures are frequently Rearm" feature e "Continuous Time" ; or not allow ent if the temperature iree this has been set			Sensor Currently	- % No Status I Offline ave Reset			
Continuous Tin								
One way to eliminate fal								-

b) When you have clicked on the advanced settings tab you will see the advanced options presented to you.



Recording Source	Internal Microphone 👻
Microphone Boost (+20dB)	● On [©] Off
Microphone Sensitivity	◎ 0 ◎ 20 ◎ 40 ◎ 60 ◎ 80 ◎ 100
Pulse Length	0 Millisecond
Rearm	5 Percent
Data Collection Type	Average -
Display Style	🔘 Basic Style 🖲 Gauge Style
Advanced Status Text and Color	Low Critical
	Low Warning
	Normal
	High Warning
	High Critical
	Sensor Error
Enable Graph	On Off
	Popup Windows on Sensor Name
Sensors URL	
Open link in	Current Windows O New Windows
Enable Calendar	🗇 On 🖲 Off
Sa	Reset

Now lets look at what each of these settings does:-

Recording Source: Here you can choose either internal or external microphone.

Microphone boost (+20dB): Boosts the microphone by 20 dB

Microphone Sensitivity: The level of sensitivity that can be set. For example, if you set the level to 80, then the microphone will detect more sound if the level was set a 20.

Pulse Length: This defines the minimum duration of a sound to trigger an alert notification.

Rearm: The Rearm parameter is used to prevent the sensor from flickering between two states. For example if the **Warning High** threshold for the sound sensor is set to 80 and the sensor was to vary between 79 and 80, a very large number of emails, traps, and events would be logged. The Rearm parameter prevents this by forcing the signal level to drop by the Rearm value before changing the state back to normal. In this example, if Rearm is set to 2 then the sensor would have to drop from 80 down to 77 before the status would change from **Warning High** back to normal.



Data Collection Type: There are 3 settings for this parameter: lowest, highest, and average. Data will be collected for the lowest, highest, or average sound reading accordingly.

Display Style: Here you can choose the gauge style, or the classic bar style gauge.

Advanced Status Text and Color: Here you can select to change your display text and warning colors.

Note: As for all the other sensors you can now set up the sound detector to be attached to a notification. Then when your thresholds are broken it will trigger a specified type of notification.



1. Expansion Ports

Your AKCP Securityprobe-5ES is equipped with four expansion ports. This enables you connect up to four daisy chains of expansion modules. The available expansion modules are an eight port intelligent sensor board and an Opto-isolated sixteen dry contact expansion module. In this section we will go through the basic setup of the sensor. If you require information on specific functions of a particular sensor or expansion board then please refer to the relevant manual for that product.

a) Plug the expansion board into one of the four ports located on the front panel of the unit. These are numbered E1-E4.



b) From the summary page, navigate to the "Sensors" tab. Then click "Expansion Boards" as outlined in the image below:-

АКСР			АКС	CP securityProbe 5	ES			
Location: System Location							Current System Time: 06/	01/2000 10:12:22
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				s	ensor Settings			
Sensors M	enu				Expansion Port1			
Sensor Ports								
Expansion Boards				Click on the "Sense	ors" tab			
Expansion Port1								
Expansion Port2			Iodule 0A000764					
 Expansion Port3 		Expansion Port1						
 Expansion Port4 					Expansion Port2			
Sound Detector			Then click on "	Expansion Boards				
Power Meter			Then click on	Expansion Boards				
Virtual Sensors								
Help								
Click on a port to display or		Expansion Port2						
settings.	conligure its							
					Expansion Port3			
Move E-module	Settings							
If you need to move your se								
one E-module to another, fi		<u> </u>						
expantion modules, then si module icon to the E-modu		Υ <mark>΄</mark>						
move the settings to and dr		Expansion Port3						
module. Please Note: You will lose	your original				Expansion Port4			
settings because this proc	ess duplicates							
sensor ID's which connot t unit.	e the same on the	[]						
unic								
		Expansion Port4						
	(),							
			©199	1 - 2000 AKCP All rights reserv	ed.			

c) A list of all extended ports will be shown. Each port will display any available extension modules, these will be highlighted in green. Click the module to be taken to the sensor settings page.



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d) This will bring you to the following page, the extended port sensors page:-

ЛКСР				AH	CP securityPr	obe 5ES				
Location: System Location									Current System Time	: 06/01/2000 10:17:38
Summary	Мар	So	und Log	Sensors	Notification	Access	Control	Settings	Applications	Help
						Sensor Settin	igs			
Sensors Menu						Expansion Port	H			
Sensor Ports										
Expansion Boards										
Expansion Port1										
Expansion Port2		V L	-	odule 0A000764						
Expansion Port3		Expansion Port	1	ouule ono or or						
Expansion Port4						Module 0A000	764			
Sound Detector						module onoon				
Power Meter						Host Name Modu	ule 0A000764		Change N	ame here
Virtual Sensors						Module Status Conne	ected			
Help					Ma	dule Currently	Enable Enable	or Disable your I	module here	
This page shows the list of exter moduless connected.	nded					Save Res	not	1		
Click on a module to change its	settings.					Jure	set			
	-									
			1	2	3	4	5	6	7	8
		Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense	Auto Sense
		Status			•					
		Online	ō	ē	ě	ě.	ě.	ě.	ē	
				(TETETTEE)	N OTTETTCO 1	1 SECTION 1	A TELETICO 1	(TELEVICO)	[TTOTTOO]	
							s			
			N/C	N/C	N/C	N/C	N/C	N/C	N/C	Dual Sensors
				©1	991 - 2000 AKCP All righ	ts reserved.			Click here for se	nsor settings

e) Once you have clicked on the "Dual sensors" tab you will be directed to the familiar looking notification thresholds page. From this page you can carry out various operations as indicated in the sensor settings tutorials found on page 16.



3) Notifications

If you setup a notification you can define the action to take when the sensor gives a reading beyond your previously set thresholds. This allows you to determine how you will be notified that a sensors reading has reached the specified parameters (high warning, critical etc) that we looked at in the previous section.

This tutorial provides you the information needed to setup a notification.

To get to the starting point of this tutorial:

- Login as administrator
- Click the "Notifications" tab

1. Adding a notification

a) First click on the "notification wizard"

ЛКСР				AKCP	P securityProbe 5ES						
Location: System Locatio	n							Current System Time:	06/01/2	000 10:22:	:03
Summary	Ma	ıp	Sound Log	Sensors	Notification	Access Control	Settings	Applications	ſ	Help	
		nsor To Action									
Notification Menu						1. Click Notificati	ons tab				
Begin Notification Wizard Action			Link Sensor To Action	Escalation							
			Host Name	Sensor Name		Action on Sta	tue	Action Name			
Link Sensor To Action										-	
Options	1									_	
View Notification Log					Create Edit	Create Escalation	Remove				
Notification Analyzer											
Help				Import notifica	ation from file	Browse	Import Export				
This is an overview of all	configured										
Sensor Action Links. From	m here you may										
create, edit and remove S Links.Select your desired											
Link(s) before making a c											
Each line should be desc		2. Clie	2. Click "Begin Notification Wizard"								
Temperature in Store roo Critical Then E-mail Store											
Manager.											
To disable or enable the	notifications										
without having to delete th	hem, in the Link										
Sensor To Action listing, checkbox to disable them											
checkbox to enable them											
-											
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b) You will now have the notification wizard page displayed, shown on the next page.



ЛКСР		Anoi	P securityProbe				
cation: System Location						Current System Time: 0	6/01/2000 10:24:
Summary Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				Create Action			
Notification Menu	The Notifical	tion Wizard will quide you	step by step through the p	rocess of selcting a sensor, creati	ng an action and defining t	he criteria under	
gin Notification Wizard		otification will be sent.	step by step through the p	rocess of selecting a sensor, creat	ng an action and actining i		
tion					-		
Add Action		Pleas	e select an Action Type	SNMP Trap			
k Sensor To Action		Select no	tification type	Email	Cancel	Next >	
Options		Genetic Ind	uncation type	Relay	cuitor	Click "Next"	to continue
w Notification Log				FTP Custom Script			
tification Analyzer				Fax			
Help				Siren Wake Up / Shutdown			
lease select an Action Type from the				Windows Alert			
ull down box. Later your action will be hed to a sensor and status.				Skype Call/SMS Dry contact			
iked to a sensor and status.				Enable/Disable Sensor To Action Alarm Sound			
				Speech			
			@4004 20	Sound Log Of Telephone Call			
			01331-20		_		

We will now go through setting up a few different ways of notification step by step. To learn what the other types of notifications do refer to the separate notification manuals that can be found on your product CD.



2. SNMP trap

First we will set up a notification via SNMP trap, so that when your sensor reaches a certain threshold it will send a notification to your SNMP server.

This tutorial provides you the information needed to setup an SNMP trap.

To get to the starting point of this tutorial:

- Log in as administrator
- Click the "Notifications" tab
- Choose "Notifications wizard"
- Choose SNMP trap

a) After selecting to add an SNMP trap you will need to fill in the following information

1	Action Name	SNMP Trap 1	Enter name for your
T	rap Version	⊙ v1 ⊖ v2c ⊖ v3	SNMP notification
SNMP Trap send port(defa	ault is : 162)	162	- Enter the IP address
Destinat	ion Address	192.168.0.XXX	of your SNMP trap
	Community	public	
Enter communi		Add Trap Destination	_
name of trap			Cancel Next

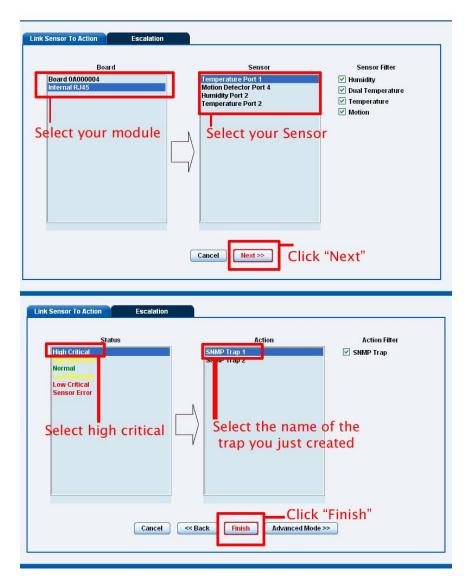
b) Once this information is correct you can press the "Add Trap Destination" button. After clicking this you have the option of inputting another trap, or clicking on "Next". Now you can enter the following parameters:-

Sensors	Notification
	SNMP Trap Action Wiz
Maximum Times to Resend Resend Intervals (secs)	0 🗸 10 10 secs

These parameters set the maximum number of times to send the trap notification and the time interval between each notification.



c) After clicking next you will be presented with the following screens:-



On these screens you can select the parameters for when to send the SNMP trap notification. In our example we have selected to bind the SNMP trap to the temperature sensor we have connected on port 1. The trap will be sent when the sensor reads a "High Critical" and we bind this to the SNMP trap we just created and named "SNMP Trap 1"



d) Once we have created the parameters for the SNMP trap, we need to make it active. To do this go back to the notifications tab and it should look like the following:-

ЛКСР			AKCP s	ecurityProbe 5	ES			
Location: System Locatio	n						Current System Time: 06/	01/2000 10:27:26
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				Link S	ensor To Action			
Notification N	lenu							
Begin Notification Wizard		Link Sensor To Action	Escalation					
Action		Host Name	Sensor Name		Action on Stat	ue	Action Name	
Link Sensor To Action		-	Sensor nume		Action on sta		Action Name	
Options						10.5		
View Notification Log		c	lick "Create"	Create Edit	Create Escalation F	temove		
Notification Analyzer								
Help			Import notifica	tion from file	Browse	Import Export		
This is an overview of all								
Sensor Action Links. From create, edit and remove S								
Links.Select your desired Link(s) before making a c								
Each line should be desc Temperature in Store roo								
Critical Then E-mail Store								
Manager.								
To disable or enable the i without having to delete the								
Sensor To Action listing, j	ust uncheck the							
checkbox to disable them checkbox to enable them								
circoloox to enable them								
				©1991 - 2000	AKCP All rights reserved.			

e) Select the sensor and SNMP trap parameters as before

Link Sensor To Action Escalation		
Board Internal RJ45 Select board	Senar	Sensor Filter V Humidity V Dual Temperature V Temperature V Motion
Link Sensor To Action Escalation	Cancel Next>> Cli	ick "Next"
Status High Critical Sensor Error Select high critical	SMMP Trap 1	Action Filter ♥ SNMP Trap
Cancel	< Back Finish Advanced Mode	lick "Finish" »

f) Now you will see the SNMP trap has been added to our notifications page:-



Board Name	Sensor Name	Action on Status	Action Name
nternal RJ45	Temperature Port 1	High Critical	↓ →
	Create Edit	Create Escalation Remove	ן

Note: To remove this trap and make it inactive, highlight the notification and click remove.

You can repeat this process to set up multiple SNMP traps for different sensors, or for multiple SNMP servers etc.



3. E-mail

This tutorial provides you the information needed to setup an E-Mail Notification.

To get to the starting point of this tutorial:

- Log in as administrator
- Select the "Notifications" tab
- Click "Notification Wizard"

a) If you select to set up an E-mail notification you will be shown the following page

АКСР			AKCP s	ecurityProbe	5ES			
Location: System Location	n						Current System Time: 06/	01/2000 10:29:24
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				Ema	il Action Wizard			
Notification I	lenu	-				_		
Begin Notification Wizard		Choose a mes	sage title for your en	nail Action Name	Email 1			
Action								
Add Action				Mail From				
Link Sensor To Action				Mail To		*		
Options						τ.		
View Notification Log		Enter	email recipients here	e Mail CC		*		
Notification Analyzer						-		
Help				Mail BCC		*		
Please choose a name f	or your <u>e-mail</u>					-		
Action. Descriptive Action increase the simplicity of				Ľ		1000		
Complete the Mail To, Fr fields with correctly forma							Cancel Next	
addresses. The Mail To a are mandatory.Multiple re	ind From fields							
entered by separating ad	dresses by a							
comma (,) or semicolon	.)							
Please select Cancel to mode and go back to the								
saving.	menu without							
				©1991 - 200	00 AKCP All rights reserved.			
1								

b) After clicking "Next" you will get a page where you can input the e-mail name and message. Press the "Customize" button and the fields will re-write in a format that will allow for an automated e-mail that will display the sensor information.

ЛКСР			AKCP	securityProbe	5ES			
Location: System Locatio	n						Current System Time: 06/	01/2000 10:32:26
Summary	Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				Ema	ail Action Wizard			
Notification N	Menu							
Begin Notification Wizard					Testing Sensor Port 1 on Testin	g Board is now 80 Unit, s		
Action					From: System Name(10.1.5.87) Time: 10:29:19	*		
- Add Action					Testing Sensor Port 1 on Testin	g Board is now 80		
Link Sensor To Action					Unit, status is now Normal			
Options	6.							
View Notification Log								
Notification Analyzer						-		
Help			Oliver	Customized"	Customized			
This is a preview of the m be sent to your recipient(s message will include the to your sensor.	s).The sent		Click	Customized"	Attach Graph			
Click Customize to chang this message. The items message with a dollar si parentheses e.g. \$[TIME] data to be imported into y	in your gn and represent the					Ca	ncel Back Next	
the time of sending. Plea Macro Description button	se click the							
Click Enable Picture to at with your message. Sele- either the Current Picture Camera or the most rece Stored on the Picture Log Cameras you would like f source of your picture.	ct to attach from the ent Picture g. Select which							



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АКСР			AKCP	securityProbe	5ES			
Location: System Locatio	n						Current System Time: 06	01/2000 10:34:15
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				Ema	il Action Wizard			
Notification N	lenu							
Begin Notification Wizard					[DESCRIPTION] on [BOARD_D	ESC] is now \$[VALUE] \$[
Action					From: \$[SYSNAME](\$[IP]) Time: \$[TIME]	*		
Add Action					S[DESCRIPTION] on S[BOARD_D			
Link Sensor To Action					\$[VALUE] \$[UNIT], status is now	\$[STATUS]		
Options								
View Notification Log								
Notification Analyzer						*		
Help					Preview Restore Defa	ult Macro Description		
This is a preview of the m be sent to your recipient(s message will include the to your sensor.).The sent		Click	"Atatach Granh"	Attach Graph			
Click Customize to chang	e the format of		Onon	Atataon oraph	n you would like a g	ruph uuucu		
this message. The items message with a dollar sig	in your					Ca	ncel Back Next	
parentheses e.g. \$[TIME]	represent the							
data to be imported into y the time of sending. Plea								
Macro Description button								
Click Enable Picture to at with your message. Sele- either the Current Picture Camera or the most rece Stored on the Picture Log Cameras you would like 1 source of your picture.	t to attach from the nt Picture . Select which							

After this click "Next"

c) Now you need to input your SMTP server address for your e-mail account.

SMTP Server		
SMTP Port	25	
SMTP Authentication	🔿 Enabled 💿 Disabled	
SMTP Server Login name		
SMTP Server Password		
Timeout	30 Second(s)	
		Cancel Back Next

Once this is correct, click next.

d) Now, as with the SNMP trap you can select how many times to attempt to resend the e-mail, and the time elapsed between each attempt.

Maximum Times to Resend	0 🗸					
Resend Intervals (secs)	10	10 secs				
				Cancel	Back	Next

Click next when you have filled in your parameters.

e) Now link the e-mail we just created to the temperature sensor on port 1.



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Link Sensor To Action Escalation		
Board	Select Temperature Port 1 Humidity Port 2 Temperature Port 2 Select temperature	Sensor Filter Y Humidity Y Dual Temperature Y Temperature Y Motion
	Cancel Next>>> Click "Next"	
Link Sensor To Action Escalation	Action	Action Filter Y SNMP Trap Y Email
Cancel	Click "Finish"	»

Click on "Finish". You will now be taken back to the main Notification tab.

f) Click on create

Sensor Name		Action on Status		Action Name
Temperature Port 1	\Box	High Critical	\Box	🔩 SNMP Trap 7
	A (Click table cell to toggle selection.		
	Crea	ate Edit Remove		
Click	on "Create	"		

g) Create the notification link as before. Then click finish



Link Sensor To Action Escalation		
Board InformaticA35 Select board	Temperature Port 1 MonorDatector Port 2 Humidity Port 2 Select temperature	Sensor Filter V Humidify Otal Temperature V Temperature V Motion
Link Sensor To Action Escalation	Cancel Next> Click "Next"	
Status High Critical Normal Low Critical Sensor Error Select Status	Action	Action Filter ♥ SWAP Trap ♥ Email
Cancel	Click "Finish" <	»

h) You will now be back at the main notification page. You should now see listed our two notifications, the SNMP trap and the e-mail.

Sensor Name		Action on Status		Action Name
Temperature Port 1	\Box	High Critical	\Box	🖶 SNMP Trap 7
Temperature Port 1	\Box	High Warning	\Box	😂 Tutorial E-mail
	🔺 (Click table cell to toggle selection	n.	

As you can see from this page, we now have an SNMP trap set up not give us notification of a "High Critical", and an E-mail notification that will activate on a "High Warning"

4. SMS notification

Now, we will set up a notification so that you will be sent an SMS message. This message can be sent via a GSM/GPRS mobile phone connected via a Bluetooth connection or the USB port.

This tutorial provides you the information needed to setup a SMS notification.

To get to the starting point of this tutorial:

- Log in as administrator
- Select the "Notifications" tab
- Click "Notification Wizard"



a) From the list of notification types select SMS and click next. You will then be presented with this :-

			current system rime	e: 31///09 17:32
Sensors	Notification	Settings	Applications	Help
	SMS Action Wiza	ard	NA 0.114	
Act	tion Name SMS 1		notificat name	tion
Phon	e Number			
the state of the state of the state of the	t a phone umber	e Number	Cancel	ext

b) You can now either add multiple numbers, or click next. In our case we will click next.

				Current System Time	e: 31/7/09 17:3
Sensors	Not	ification	Settings	Applications	Help
	SMS	Action Wiza	ırd		
	Action Name	SMS 1			
	Pho	ne Number Lis	t		
	00	639052965214	1		
	Phone Number	00639052965 Add Phon		ete Phone Number "N	lick lext"
					ext

c) Now we will set up the message that will be sent to the phone. You will see the following screen.



Sensors	Notification	Settings	Applications	Help
	SMS Action Wiza	ird		
SMS Mes		or Port 1 is now 80, 10.1.5.206	status is now	
Click to cu	ustomize		Cancel Back I	Next

Note: A macro is a script that returns specific data collected by the unit. In our example here the macro will tell the notification to contain the "description" (sensor name), the value (current sensor reading) and the status (high/low warning etc) these macros are common to all sensor notifications.

d) You will now see that the SMS message has changed its format to include the Macro script.

lications	Help
now 🗠	
cro Description	
Back	
Click #	
	cro Description

e) Next we will choose to set up the type of connection. This will depend on the type of modem you are connecting. For the purpose of this tutorial we will assume you are connecting a GSM/GPRS enabled modem to the serial port. Therefore we will select COM1 from the list.



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Sensors	Notification	Settings	Applications	Hel
	SMS Action Wiza	ırd		
Mobile Ph Mobile Phone Po Dela Select for Initializatio	rt Speed Auto 💉 ny Times 0	n Setup) 🗸		
Initializatio	on String	C	ancel Back	Next

Choose the connection type you wish to use

f) You will now be able to select the number of times you wish the SMS to be resent and the interval between sending them.

	· · · · · · · · · · · · · · · · · · ·		Current System 1	lime: 31/7/09 1
Sensors	Notification	Settings	Applications	Heir
	SMS Action Wiza	ard		
Maximum Times to Resend Interva	Non-German			Click 'Next"
Contraction of the state of the state	mber of tim and interv		Cancel Back	Next

g) Again we now select the sensor to which to bind this notification too.



Board Board 0A000004 Internal RJ45	Sensor Temperature Port 1 Motion Detector Port 4 Humidity Port 2 Temperature Port 2	Sensor Filter V Humidity Dual Temperature Temperature Motion
iensor To Action Escalat	Cancel Next >>	
Status	Action	Action Filter
High Critical Normal Low Warning Low Critical Sensor Error	SNMP Trap 1 Email 1 SMS 1	 ✓ SNMP Trap ✓ Email ✓ SMS

As before, select the Temperature sensor on port 1. This time we will use this notification for a low critical. Then select the notification name we assigned, in this case we chose "SMS 1". Click Finish to finalize this.

Finish

Advanced Mode >>

Cancel

<< Back

h) Now we will add the SMS notification to our active list. This is the same process as for the others, simply click on create and then select the appropriate parameters.



Link Sensor To Action Escalation		
Board Forerclosopond Internal RJ45	Selfsor Temperature Port 1 mononoundercite york 4 Humidity Port 2 Temperature Port 2 2	Sensor Filter Humidity Dual Temperature Temperature Motion
Link Sensor To Action Escalation	Cancel Next >> 3	
Status High Critical Horman Sensor Error	Action SMMP Trap 1 Page 4 SMS 1 5	Action Filter SMMP Trap Ø Email Ø SMS
Cancel «	Back Finish Advanced Mode >>	

j) You will now be back at the main notification page. Now the page should display three types of notifications, the SNMP trap, E-mail and SMS.

Sensor Name	Action on Status	Action Name
Temperature Port 1		₩ SNMP Trap 7
Temperature Port 1	High Warning	Tutorial E-mail
Temperature Port 1	Low Warning [Tutorial SMS notification
	Click table cell to toggle selection	у он.

For the purposes of this tutorial we will not cover the set up of every type of notification. However, with this information you should be able to follow the procedure for the other types of notifications easily, as they all follow a similar format. If you still encounter difficulties with this then please contact us on <u>support@akcp.com</u>.



5) Mapping

The mapping feature allows for an instant visual feedback as to a sensors position, and status. It is a useful monitoring tool for a set up with several sensors in different positions.

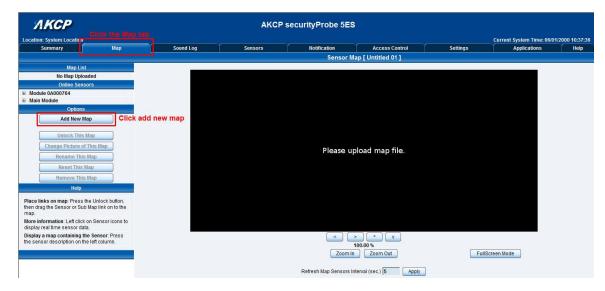
This tutorial provides you the information needed to setup the mapping feature.

To get to the starting point of this tutorial:

- Log in as administrator
- Click the "map" tab

1. Adding a map

a) First we need to add a picture file to be used as the map. This can be a blueprint of your office, a 3D picture of your office/site being monitored, or a photo of the wiring closet you are monitoring.





b) Now you can browse to the file on your HDD you wish to use.

	Map Wizard
Please select a Map picture to upload. JPEG or GIF format (Maximum 512 kB).	
Upload new Map	Browse
ck "Browse" to navigate to	vour selected file Cancel Next

c) In this tutorial we are going to use a 3D map of a town center we are monitoring.

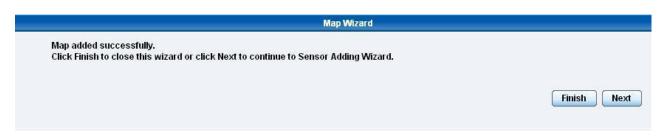
Location: Sound Log Sensors Notification Access C Summary Map Sensor Map Sensor Map Town center Map List Map Wizard Map Wizard Monine Sensors Options Map Wizard Options Add New Map Map Change Picture of This Map Rename This Map Rename This Map Renove This Map Renove This Map Enter Map Name				
Map List Sensor Map [town center Town center Map willow Online Sensors Map willow Options Map willow Add New Map Map willow Change Picture of This Map Reset This Map Reset This Map Reset This Map Reset This Map Enter Map Name Place links on map: Press the Unlock button, then drag he Sensor SUb Map link on to the map. Enter Map Name Display a map containing the Sensor: Press Display and the Sensor: Press			Current System Time: 06/01/	2000 10:59:46
Map List Map winder town center Map winder Options Options Options Map winder Displays map sensor of sub Map link on to the map. Enter Map Name Place links on map. Press the Unlock bution, then drag the Sensor of sub Map link on to the map. Item to the Sensor of sub Map link on to the map. Displays map containing the Sensor. Press Enter Map Name	s Control	ol Settings	Applications	Help
Item Map wploaded successfully. Options Map wploaded successfully. Add Hew Map Map wploaded successfully. Unlock This Map Map wploaded successfully. Change Picture of This Map Reame This Map Renows This Map Enter Map Name Help Enter Map Name Place links on map. Press the Unlock button, map. hensor or Sub Map Ink on to the map. Item of the Sensor or Sub Map ink on to the map. Displays amp containing the Sensor Press Item of the Sensor Press	nter]			
Online Sensors Mag uploaded successfully. Options Please enter the Map Name Add New Map Please enter the Map Name Unlock This Map Enter Map Name Reset This Map Enter Map Name Reset This Map Enter Map Name Pleace links on map. Press the Unlock bution, then drag the Sensor of Sub Map ink on to the map. Enter Map Name Displays amage containing the Sensor Press Union to the Sensor Press				
then drag the Sensor or Sub Map link on to the map. More information: Left click on Sensor icons to display real time sensor data. Display a map containing the Sensor: Press	デモ	Choose your map	p name	
display real time sensor data. Display a map containing the Sensor: Press			Back	
			Click "I	lext"
the sensor description on the left column. ©1991 - 2000 AKCP All rights res	reserved.	d.		

d) Choose to have the map as a top level map.

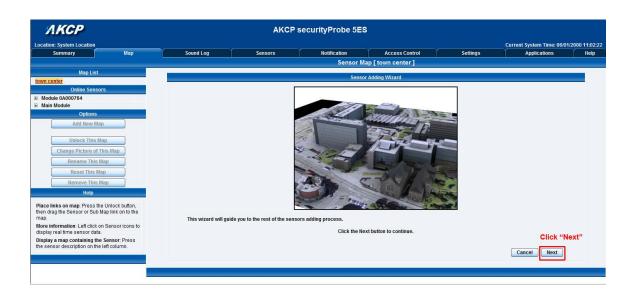
Sensor Map [campus map]	
Map Wizard	
Select Parent Map Set as Top Level 👻	
Set map as top level	Back Next Click "Next"
	This Map can be assigned as a sub-Map or as a top level map. Please assign parent map for this map. Select Parent Map Set as Top Level v

e) You will now have the option to finish or to continue adding your sensors to the map. For this tutorial, click next.

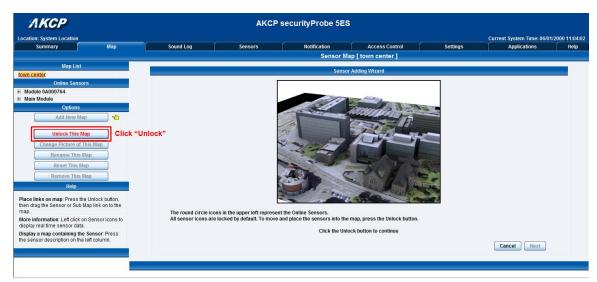




f) You will now be taken to the map page where it will display your map. To continue adding the sensors click next.



g) After clicking next you will be directed to click the "Unlock" button.



You can now drag sensor icons and position them on the map



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<i>АКСР</i>		AKCP	securityProbe 5E	3			
Location: System Location						Current System Time: 06/01	/2000 13:00:2
Summary Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
			Sensor M	ap [town center]			
Map List town center			Senso	or Adding Wizard			
Online Sensors		F					
Module 0A000764							
Module 0A000764 Connection State	Drag and drop sense	ors to your map	12	and			
Dual Humidity Port 8			1000 mil	Standa			
Main Module			The second second	The second second	and the second se		
Options			32	122 L			
Add New Map		i i	the mail		No. of Concession, Name		
Lock This Map			-20-1-				
			and the second		1		
Change Picture of This Map			ALL C				
Rename This Map				- m / 10/ 1	*		
Reset This Map				and the first the	100		
Remove This Map		6		2 - 2 Mar			
Help	Sensor icon is now p	placed, To prevent the accid	ental movement of the icon, S	ensor can be locked.			
Place links on map: Press the Unlock button,			Press the L	ock button to continue			
then drag the Sensor or Sub Map link on to the map.							
More information: Left click on Sensor icons to display real time sensor data.						Cancel Next	
Display a map containing the Sensor: Press the sensor description on the left column.							

i) After you have positioned the sensors in the correct location of your map click on "Unlock"





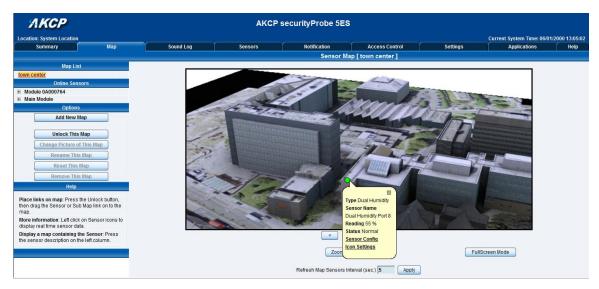
j) Finally you click on the "Finish: button to save your changes

<u> МКСР</u>		AKCP	securityProbe 5ES	B			
Location: System Location						Current System Time: 06/01	/2000 13:03:4
Summary Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
			Sensor M	ap [town center]			
Map List			Senso	r Adding Wizard			
town center Online Sensors							-
Module QA000764 Module QA000764 Connection State Deal Humidiky Port 8 Deal Temperature Port 8 Qetions Add New Map Uniock This Map Change Picture of This Map Rename This Map Reset Th							
Place links on map: Press the Unlock button,	You have complete	d the sensor adding wizard.				Click here to fin	lich
then drag the Sensor or Sub Map link on to the map.			Click Finish to save th	e change and close this wizard			11511
More information: Left click on Sensor icons to display real time sensor data.						Cancel Finish	
Display a map containing the Sensor: Press the sensor description on the left column.							_

2. Monitoring via the map interface

Now we are going to look at how to monitor the sensor status and use the map interface.

a) To see further information regarding a sensor you can click on its icon. First you must click on the "Lock Icons" button.



If you connect other sensors, these too can be dragged and positioned on the map.



6) Filters

1) Sensor filters

The module now comes equipped with the option to filter your sensor information which is displayed within the summary page. To enter the filter menu, select "Sensor Filters" from the dropdown tab on the left of the page:-

Summary Ma	,	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
Summary Setting				Senso	r Information			
Layout Setting		Host Nam	e 🔺	Type ▲▼	Sensor Name 🔺 🔻		Reading A 🔻	Status 🔺 🔻
Sensor Filters		Main Module		Module	Main Module		-	Normal
		Module 0A00076-	4	Module	Module 0A000764			Normal
Sort by : Host Name 💌			-		ors status will be reloaded in 08 secs			
Advanced Filter				(1995)				
Display Status				a series of the	Log (33 messages)			
Display Sensor Type	1	1 2000/01/06 10:43:04 Temperature Port 8 is 27.5 °C, status is Normal						
Display Host Name	2	2000/01/06 10:38:16 Temperature Port 8 is 30.0 °C, status is High Warning 2000/01/06 10:11:59 Dual Temperature Port 8 on Module 0A000764 is 26.8 °C, status is Normal						
		2000/01/06 10:11:59 Dual Hemperature Port 5 on induite 0x00/04 is 2:00-0, status is hormal 2000/01/06 10:11:59 Dual Hemperature Port 5 on induite 0x00/07/64 is 56 %, status is hormal						
Search :								
	6							
Apply Filter Clear F	ilter 7	2000/01/06 10:03:2						
xpand All Modules Collapse	di Modules 9	9 2000/01/05 16:18:52 Temperature Port 8 is 30.0 °C, status is High Warning						
	10							
load Sensor Interval : 10 secs	Apply			Sys	tem Log will be reloaded in 09 secs			
	Clic	k here to view	filter options					
Syslog Filters								

Once you have clicked the tab you will be able to select your filter results by altering various fields of information contained within sensor filter window:-

Sensor F	ilters	
Sort by Host N	Jame 🔻	 Sorting options are found here
Advanced	l Filter	
 Display Status Display Sensor Type Display Host Name Search :		—Select various options to customize your viewing window data
Apply Filter	Clear Filter	Click here to save your changes
Expand All Modules	Collapse All Modules	
Reload Sensor Interval : 1	0 secs. Apply	



Altering your page reload interval can be achieved by using these options shown below:-

Reload Sensor Interval :	10	secs.	Apply	To alter your reload tim				
26				enter a new value here				

Once you have selected your preferred filter options, your new settings will be displayed in the "Sensor Information" window found on the summary page:-

ЛКСР		()	AKCP securityProb	5ES			
Location: System Location						Current	System Time: 06/01/2000 13:18:42
Summary Map	Sound Log	Sensors	Notification	Access Contro	ol S	Settings A	pplications Help
Summary Setting			Ser	sor Information			×
Layout Setting	Host Nam	e 🔺	Туре 🔺 🔻	Sensor Na	me 🔺 🔻	Reading 🔺 🔻	Status ▲ 🔻
Sensor Filters	Main Module		Module	Main Mo	dule	-	Normal
	Module 0A00076	4	Module	Module 0A0	000764		Normal
Sort by : Host Name			Se	nsors status will be reloaded in 1	10 secs		
Advanced Filter			Svet	m Log (33 messages)			×
Display Status	1 2000/01/06 10:43:04	A Tomporature Do	t 8 is 27.5 °C, status is Normal	in Log (55 messages)			10.45
Display Sensor Type	2 2000/01/06 10:38:1		t 8 is 30.0 °C, status is High Wa	mina			A
🗉 Display Host Name	3 2000/01/06 10:11:5		e Port 8 on Module 0A000764 i			Your changes a	ire displayed here 🕺
Search :	4 2000/01/06 10:11:5	9 Dual Humidity Po	rt 8 on Module 0A000764 is 56	6, status is Normal			
search:	5 2000/01/06 10:11:5						
Apply Filter Clear Filter	6 2000/01/06 10:08:2		4 Connection State on Module I	A000764 status is Normal			
Clear Titler	7 2000/01/06 10:03:2						1.0
Expand All Modules Collapse All Modules	8 2000/01/06 05:55:0		t 8 is 27.5 °C, status is Normal				V
	9 2000/01/05 16:18:5 10 2000/01/05 10:31:4		t 8 is 30.0 °C, status is High Wa t 8 is 27.5 °C, status is Normal	rning			V
Reload Sensor Interval : 10 secs. Apply	10 2000/01/05 10:51:4.	z remperature Po		vstem Log will be reloaded in 09	secs		
Reload Sensor Interval : 10 secs. Apply							
Syslog Filters							
			©1991 - 200	AKCP All rights reserved.			



2) Syslog filters

Syslog filters enable you to customize your syslog window. To begin select the "Syslog filter" tab found on the summary page:-

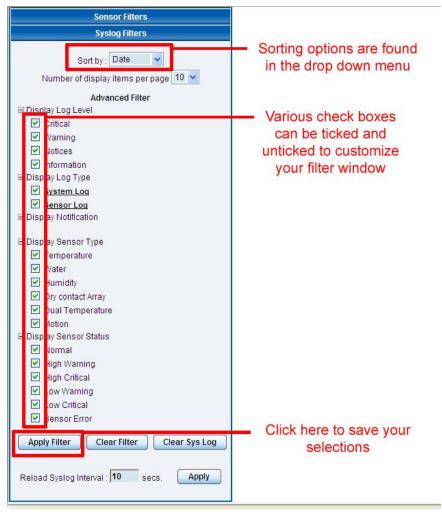
🖉 🔵 🗢 🙋 http://10.1.5.87/summary.php					- 🛛 😽 🕽	🖌 🔁 3d map	
Google		👻 🛂 Search 🔹	· More »				🍮 Sign I
🖉 - 💽 Se	arch 🔻 🕂 🏤 🚮 Login 🔁 🕶	🔠 🌏 [483] 👻 🍳	Music 🌟 Games				
🛛 🖡 🔽 Suggested Sites 🕶 🖉 Web Si	ice Gallery 🔻						
System Name					🖄 🔹	🔊 🕶 📑 🖶 🕶 Page 🕶	Safety 👻 Tools 👻 🌘
АКСР		AK	CP securityProbe 5E	s			
ocation: System Location						Current System Ti	me: 06/01/2000 13:20
Summary Map	Sound Log	Sensors	Notification	Access Control	Settings	Applications	
Summary Setting			Sensor Inf	ormation			
Layout Setting	Host Name	e 🔺	Туре 🔺 🔻	Sensor Name 🔺 🔻		Reading 🔺 🔻	Status 🔺 🔻
Sensor Filters	Main Module		Module	Main Module		-	Normal
Syslog Filters	Module 0A000764		Module	Module 0A000764			Normal
	Cuples filter ettin.	an are found here	Sensors :	tatus will be reloaded in 04 secs			
	Syslog filter stting	ys are round here		catus will be reloaded in 04 secs			
Sort by : Date 💌	Syslog Inter stun	gs are found here	0.000 A 2010	(33 messages)			
Sort by : Date Number of display items per page 10	1 2000/01/06 10:43:04		0.000 A 2010				
Number of display items per page 10 -		Temperature Port 8 is	System Lo				
Number of display items per page 10 💌 Advanced Filter	1 2000/01/06 10:43:04	Temperature Port 8 is Temperature Port 8 is	System Lo s 27.5 °C, status is Normal	(33 messages)			
Number of display items per page 10 - Advanced Filter B Display Log Level	1 2000/01/06 10:43:04 2 2000/01/06 10:38:16	Temperature Port 8 is Temperature Port 8 is Dual Temperature Po	System Log s 27.5 °C, status is Normal s 30.0 °C, status is High Warning	(33 messages) C, status is Normal			
Number of display items per page 10 💌 Advanced Filter	1 2000/01/06 10:43:04 2 2000/01/06 10:38:16 3 2000/01/06 10:11:59	Temperature Port 8 is Temperature Port 8 is Dual Temperature Po Dual Humidity Port 8 o	System Log s 27.5 °C, status is Normal s 30.0 °C, status is High Warning rt 8 on Module 0A000764 is 26.8 on Module 0A000764 is 56 %, stat	(33 messages) C, status is Normal			
Number of display items per page 10 - Advanced Filter (# Display Log Level (# Display Log Type	1 2000/01/06 10:43:04 2 2000/01/06 10:38:16 3 2000/01/06 10:11:59 4 2000/01/06 10:11:59	Temperature Port 8 is Temperature Port 8 is Dual Temperature Po Dual Hemidity Port 8 is Module 0A000764 is is	System Log s 27.5 °C, status is Normal s 30.0 °C, status is High Warning rt 8 on Module 0A000764 is 26.8 on Module 0A000764 is 56 %, stat	i (33 messages) C, status is Normal us is Normal			
Number of display items per page 10 - Advanced Filter (# Display Log Type (# Display Sensor Type (# Display Sensor Status	1 2000/01/06 10:43:04 2 2000/01/06 10:38:16 3 2000/01/06 10:11:59 4 2000/01/06 10:11:59 5 2000/01/06 10:08:23 7 2000/01/06 10:08:23	Temperature Port 8 is Temperature Port 8 is Dual Temperature Port 8 Dual Humidity Port 8 Module 0A000764 is Module 0A000764 is Module 0A000764 is	System Log s 27.5 °C, status is Normal s 30.0 °C, status is High Warning vi 8 on Module 0A000764 is 26.8 ° on Module 0A000764 is 56 %, stat enabled nnection State on Module 0A0007 disabled	i (33 messages) C, status is Normal us is Normal			
Number of display items per page 10 - Advanced Filter Display Log Level Display Log Type Display Sensor Type	1 2000/01/06 10:43:04 2 2000/01/06 10:43:04 3 2000/01/06 10:11:59 4 2000/01/06 10:11:55 5 2000/01/06 10:11:55 6 2000/01/06 10:03:23 7 2000/01/06 10:03:23 8 2000/01/06 05:55:50	Temperature Port 8 is Temperature Port 8 is Dual Temperature Po Dual Humidity Port 8 Module 0A000764 is Module 0A000764 cs Module 0A000764 is Temperature Port 8 is	System Log s 27.5 °C, status is Normal s 20.0 °C, status is Hofb Warning rt 8 on Module 0A000764 is 26.8 ' on Module 0A000764 is 56 %, stat enabled mection State on Module 0A0007 disabled g 27.5 °C, status is Normal	i (33 messages) C, status is Normal us is Normal			
Number of display items per page 10 - Advanced Filter (# Display Log Type (# Display Sensor Type (# Display Sensor Status	1 2000/01/06 10:43:04 2 2000/01/06 10:38:16 3 2000/01/06 10:11:59 4 2000/01/06 10:11:59 5 2000/01/06 10:08:23 7 2000/01/06 10:08:23	Temperature Port 8 is Temperature Port 8 is Dual Temperature Port 8 Dual Humidity Port 8 Module 0A000764 is Module 0A000764 or Module 0A000764 is Temperature Port 8 is	System Log s 27.5 °C, status is Normal s 30.0 °C, status is High Warning vi 8 on Module 0A000764 is 26.8 ° on Module 0A000764 is 56 %, stat enabled nnection State on Module 0A0007 disabled	i (33 messages) C, status is Normal us is Normal			

Once you have clicked the tab you will be able to select your filter results by altering various fields of information contained within syslog filter window:-

Systog Filters	
Sort by : Date v Number of display items per page 10 v Advanced Filter	By clicking on the "+"
 Display Log Level Display Log Type Display Notification Display Sensor Type Display Sensor Status 	sign, a drop down list of options will be come available.
Apply Filter Clear Filter Clear Sys Log Reload Syslog Interval : 10 secs. Apply	

By checking and un-checking various boxes within the Syslog filter window you can customize your displayed results contained within the syslog filter.





Altering your reaload interval can be achieved by using the options shown below:-

Reload Syslog Interval	10	secs.	Apply
	2		

To change your reload interval enter a new value here and click "Apply"

Once you have selected your preferred filter options, your new settings will be displayed in the "System log Information" window found on the summary page:-



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🕗 🗢 🙋 http://10.1.5.87/summary.p	hp					▼ 8	😚 🗙 [🖸 3d map	
Google			👻 🛃 Searc	h • • More »				🌙 Sigr
Q-	• 🖸 Search 🔹 🔶	ᇌ 🛐 Login 🛛 🕶	🔠 🎻 [483] 🔻	🙆 Music 🔶 Games				
Favorites 🛛 👍 🊺 Suggested Sites 🔻 🕯	Web Slice Gallery							
System Name						<u>گ</u>	🝷 🚮 🕈 🖃 🖶 🝷 Pag	e ▼ Safety ▼ Tools ▼
ЛКСР			Ļ	AKCP securityPro	be 5ES			
cation: System Location							Current Syster	n Time: 06/01/2000 13:
Summary Map	í í	Sound Log	Sensors	Notification	Access Control	Setting	s Applicat	ions 📔 Help
Summary Setting				S	ensor Information		n	
Layout Setting		Host Name	X	Туре 🔺 🔻	Sensor Name 🔺 🔻) 	Reading ▲▼	Status 🔺 🔻
Sensor Filters		Main Module		Module	Main Module		-	Normal
Syslog Filters		Module 0A000764		Module	Module 0A000764			Normal
					Sensors status will be reloaded in 04 secs			
Sort by : Date 💌				Sy	stem Log (33 messages)			
Number of display items per page	0 🕶 🛛 1	2000/01/06 10:43:04	Temperature Por	t 8 is 27.5 °C, status is Norm	al			
Advanced Filter	2	2000/01/06 10:38:16		t 8 is 30.0 °C, status is High \		Syslog	filter sttings are dis	played
∃ Display Log Level	3	2000/01/06 10:11:59		e Port 8 on Module 0A000764		here		
Display Log Type	4	2000/01/06 10:11:59 2000/01/06 10:11:55		rt 8 on Module 0A000764 is 5	6 %, status is Normal			
Display Sensor Type	5	2000/01/06 10:11:55			04000764 status is Normal			
■ Display Sensor Status	7	6 2000/01/06 10:08:23 Module 0A000764 Connection State on Module 0A000764 status is Normal 7 2000/01/06 10:03:29 Module 0A000764 is disabled						
Apply Filter Clear Filter Cle	ar Syslog 8	2000/01/06 05:55:01		t 8 is 27.5 °C. status is Norm	al			
	9	2000/01/05 16:18:52	Temperature Por	t 8 is 30.0 °C, status is High \	Varning			
Apply riter Clear riter Ck			Townson the Day	t 8 is 27.5 °C, status is Norm	al			
eload Syslog Interval : 10 secs.	Apply 10	2000/01/05 10:31:42	Temperature Pol	LOIS 21.5 C, Status IS NOTIH	ai			



7) Making my unit visible on the internet

So far the manual has simply covered the basic set up. The setup we have just created will allow you to access your unit on a Local Area Network (LAN), monitor via the web based interface or with SNMP traps.

However, what if you wish to be able to remotely access your unit from anywhere in the world? This is possible; however, the following steps are only an outline guide. Your exact setup and configuration will often depend on your network equipment. You are going to need access to your router, if you are using one, and knowledge of whether your IP address is static or dynamic.

1) Simple setup

a) Lets imagine that your unit is connected to a router on your network, and the following IP addresses are assigned.

Your units IP address is the default 192.168.0.100.

Your computers IP address is 192.168.0.200

Your routers IP address is 192.168.0.300

b) To find out your routers external IP address go to www.whatsmyip.com

Lets imagine your routers external IP address is 278.67.04.09

c) You now need to setup port forwarding on your router. This varies depdning on your routers model. Generaly you need to point your browser to your routers IP address (in this case 192.168.0.300). This will then allow you to log into your routers administration interface. You can find how to go about doing this for your router on <u>www.portforward.com</u> For an example of how to do this for a commonly used router follow this link :- http://www.portforward.com/english/routers/port_forwarding/Linksys/WRT54G/HTTP.htm

nttp://www.portforward.com/englisn/routers/port_forwarding/Linksys/WR154G/HTTP.ntm

You need to setup your routers HTTP forwarding to port 80. This will then mean when you access your router using the external IP address you will be forwarded to your units internal IP address.

d) To test this, open your web browser, and go to your external IP address (in our example 278.67.04.09). If your using a dynamic IP address, its best to check it again before doing this as it may have changed since the start of this tutorial.

e) To make this easier you could use a dynamic DNS (Dynamic Name Server). This means you no longer need to remember IP address's or use <u>www.whatsmyip.com</u> to find out your IP address. You will instead register a domain name (for example <u>mysensorProbe2.homeip.com</u>). This will then automatically point your routers external IP address (e.g. 278.67.04.09). This will require you to register the domain name and open an account with a DNS server provider. We recommend <u>www.dyndns.com</u> as they allow up to 5 free domain names to be registered.

f) If you have set everything up correctly you will now be able to access your unit from anywhere in the world by simply pointing your web browser to your DNS address.

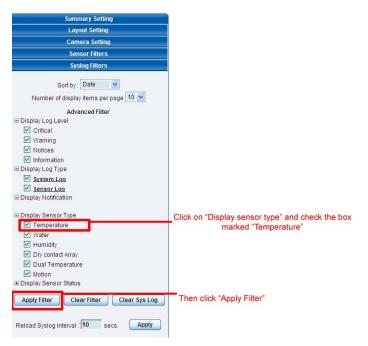


FAQ

- a) I can not see the temperature sensor displayed on summary page
- b) I can not access my units web based interface
- c) What do my LED lights mean?
- d) I have forgotten my units IP address
- e) I have forgotten the password for my unit
- f) Can I use DHCP to assign my units IP address?
- g) How do I set up my routing table?
- h) How can I change my administrator password?
- i) What functions do different types of notifications provide?
- j) Can I connect my unit via WiFi?
- k) What is the heartbeat message?
- I) What is the Network Sniffer?
- j) Can I use the unit to make video conferencing calls?

a) I can not see the temperature sensor displayed on summary page

If after logging in for the first time with the temperature sensor connected, you may need to do the following:-





Next click on apply filter. The temperature sensor should then be displayed in the list of connected sensors.

b) I can not access my units web interface

If you're having issues with network connectivity, first ensure that the link100 LED is lit on the front display of the unit. If this is not lit then you have no network connection present. If this is the case then ensure the following :-

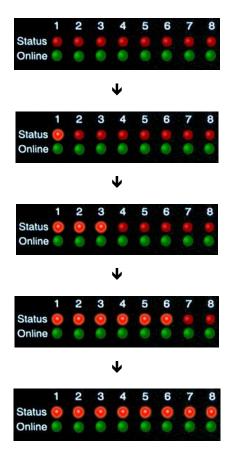
- 1. If connected directly to a PC ensure a good quality crossover cable is being used
- 2. Ensure a standard CAT5 Ethernet cable is being used to connect to your network

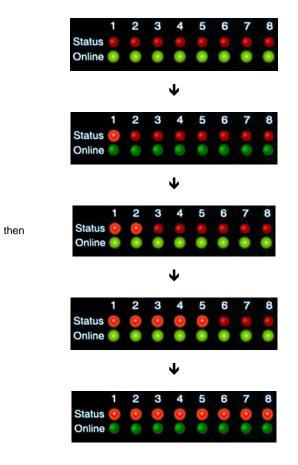


c) What do my LED lights mean?

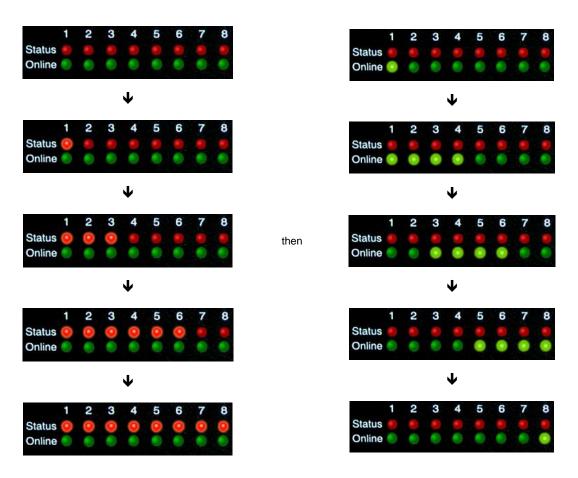
The following diagrams show what the various LED displays mean.

LED patterns in Normal mode









LED patterns in Safe mode



2 3

2 3 5 Status Online Ψ 3 Status Online Ψ 2 3 4 5 6 Status Status then Online Online Ψ Status Online ↓ Status Online

LED patterns in Recovery mode

LEDs run clockwise after the power is connected.

From left to right each LED indicates

1st LED: U-Boot init 2nd LED: Kernel loaded with good CRC 3rd LED: Board init 4th LED: Serial port 5th LED: Ethernet 6th LED: NOR Flash 7th LED: NAND Flash 8th LED: Root file-system mounted. Starting init process

After the root file-system is mounted, all green LEDs will be flashing, and red LEDs light increasingly from left to right. The onboard web-server can be accessed during this time and shows a splash screen with boot details. After the boot process is finished the LEDs show the status of the online sensors.



d) I have forgotten my units IP address

If you have forgotten the IP address of your unit then you can simply press the rest button on the back of the unit. This will then announce the IP address through the units internal speaker.

e) I have forgotten the password for my unit.

Hold down the reset button for 7 seconds. This will turn off the use password feature for the web based interface. This will remain turned off until you hold the button down for a further 7 seconds, or the unit announces *"Now turning off password checking"*.

Note: This will turn off the password checking for accessing the web interface only; you still have to enter the password when access the system via telnet.

f) Can I use DHCP to assign my units IP address?

Yes, you can use DHCP to assign the IP address. The unit ships with this disabled. Therefore to turn it on you need to log into the web interface and navigate to the Ethernet settings by way of clicking the "security" tab, "Ethernet Network" and then clicking on the YES button for "Use DHCP".

ЛКСР		AKCP	securityProbe	5ES				
Location: System Location							Current System Time: 07	01/2000 12:50:38
Summary Map	Sound Log	Sensors	Notification	Access Co	ntrol	Settings	Applications	Help
				thernet Network				
Setup	Olivius		Default Interface	Use this interface as	default gateway			
<u>General</u>	Спску	es to activate D		Ves No				
Connectivity				255.255.255.0	_			
Ethernet Network				10.1.5.5	_			
Wifi Network				10.1.5.5	_			
Modbus				00-0B-DC-00-5A-5C				
SNMP				100baseTx-FD, negotiat	ed, link ok			
SNMPTraps				Save Reset				
Bluetooth			L					
Dial-In Modem								
Dial-Out Modem								
OpenVPN Client								
Serial to Network Proxy								
Server Integration								
System Administrator								
Help								
This page allows the system IP settings to be configured centrally by DHCP or manually.								
	l .							
			©1991 - 2	000 AKCP All rights rese	rved.			

Note: If the unit has a static IP address assigned it will no longer send out DHCP requests. If you later wish to turn DHCP back on you can do that using the Web based interface.

g) How do I set up my routing table?

*To set up the routing table, open a DOS window (start, run type *command* press enter) and at the command prompt enter.

>route add 192.168.0.100 10.1.1.20

Where 10.1.1.20 is the IP address of the Ethernet interface on the PC that the unit is plugged into with the crossover cable.

Now ping* 192.168.0.100 to see if the connection was successful.



h) How can I change my administrator password?

If you wish to make your unit more secure and change the administrator password from the default (public) to your own choice follow these steps :-

- 1) Log into your unit using the default password.
- 2) Point towards the settings tab.

АКСР			AKCP se	curityProbe 5ES	;			
Location: System Locatio	n						Current System Time: 07/01/	2000 12:57:38
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help
				User & Gr	oup Management			
Setu	p					1. Click "Settin	as"	
General		Users	Groups			T. Ollok Octain	90	
Connectivity		User Name 🔺 🔻	Group Name ▲▼		Description	Login	session timeout (minutes)	
Server Integration		Admin *	Administrator	Bui	It-in account for administrator	Login	60	
😑 System Administrator		User *	User		Built-in account for user		60	
Password Checking	Ľ	BobSmith	System Guest		Guest		60	
User & Group Mana	gement	* Cannot remove.						
System Maintenanc	e							
Services and Secur				Add Re	move Properties			
System Log								
Heartbeat Message	2. Select thi	s option						
Help		and the second						
Hei								
This page allows enablin								
changing of the User and	Admin password.							
				<i>M</i> (001, 0000)				
				@1991 - 2000 1	AKCP All rights reserved.			

3) Click on properties which will bring you to the following page:-

АКСР			AKCP s	ecurityProbe 5E	s				
Location: System Location							Current System Time: 07/01	/2000 12:56:42	
Summary	Мар	Sound Log	Sensors	Notification	Access Control	Settings	Applications	Help	
				User & G	roup Management				
Setup									
		Users	Groups						
Connectivity		User Setup							
Server Integration			name, password, descritption	and then select the membe	r of the group.				
🗉 System Administrator									
Password Checking				1	User Details				
User & Group Manag	ement				_				
System Maintenance			User Name Admin User Cannot Change Passwo						
Services and Securit	¥		Password Confirm Password						
System Log			Description		ninistrator				
Heartbeat Messages		1	ogin session timeout (minutes						
Help			Member of Group		o Group Setup				
This page allows enabling changing of the User and), creation and Admin password.								
				Cance	el Finish 2.	Click here			
6									
				@1001_2000	AKCP All rights reserved.				
				@1991-2000	Anor An rights reserved.				

i) What function do the different types of notifications provide?

The notifications are used to notify you when a sensor reading has hit a certain preset "critical" threshold. There are many ways you can be notified. They are as follows :-



SNMP Trap: This form of notification sends out a signal to your SNMP server.

E-Mail: This sends a notification via e-mail.

SMS: This sends an SMS message to your mobile phone.

MMS: This will send you a multimedia message to your mobile phone. This can include an image captured from one of the sensor probes cameras.

Relay: The relay is used as a switch, for example it could switch on an air con unit if the temperature reading of a temperature sensor reaches a certain threshold.

Alarm sound: This notification will sound an alarm.

Speech: Creates a text to speech notification.

Picture log: Creates an action where the camera logs a series of images when a certain event happens.

Telephone call: Will call you and play a pre recorded message or a text to speech message.

Custom script: Allows you to load a custom script that runs on a sensor reading a pre set parameter.

Fax: Will send a Fax to you with a notification message.

Sound log: creates a log of sound captured with the internal / external microphone.

Siren and strobe: will activate a siren and strobe light.

Mobile access: Gives you the function of viewing the camera attached to your security probe via your mobile phone.

Wake up / Shutdown: This will send a signal to wake or shut down a server.

If you require any assistance in setting up of these please contact us on support@akcp.com



j) Can I connect my unit via WiFi?

Yes you can connect the unit via WiFi. Simply plug a USB dongle into the USB port on the rear of the unit. You then need to configure your connection type, and encryption key etc. You do this from the web based interface in the settings tab and the connectivity option. The dialogue for configuring the WiFi is shown below.

	Wifi Network
Wireless Adapter	⊙ On ○ Off
Default Interface	Use this interface as default gateway
Use DHCP	⊖Yes ⊙No
IP Address	192.168.0.10
Subnet Mask	255.255.255.0
Gateway IP Address	10.1.1.205
Domain Name Server	10.1.1.2
Wireless Mode	Infrastructure (Access point)
	🔿 Ad-hoc ch 🚺 🔽
Wireless SSID	
Encryption Mode	⊙ Disabled ○ 64bit WEP
Link Status	Not connected
	0%
Signal Strength	
	Save Reset

k) What is the Heartbeat message?

This setting is to have the securityProbe notify you it is still running. You can be notified by either traps or by e-mail:

Alive Trap settings: Send Keep Alive Traps (Default Off): Select on if you want the system to send Alive Traps.

Destination: enter the IP address of the server to send traps to.

Community: SNMP community string.

Resend Interval (mins): The period of time between each keep-alive trap. Values range from 1 to 65535 minutes.

I) What is the network sniffer

The Network Sniffer application can be used to capture network packets running to and from the securityProbe, and all the network traffic. You can then import the captured file into Ethereal or TCP dump for details of these network packets. The network trace will help in debugging any network problems; for example, if e-mail cannot be sent.



j) Can I use the camera for a video conferencing call?

Ye sit is perfectly possible to use the camera and the integrated microphone to make a video conferencing calls. To do this you need the software called "OpenPhone" running on your computer. This is included on the CD ROM that came with your unit. (Look for OpenPhone.exe). Next follow these steps:-

- 1. Initiate connection from OpenPhone (PC) to securityProbe.
 - a) Open the program by double clicking "openphone.exe"
 - b) Click the "Make Call" button, enter the IP address of the sensorProbe8Linux/cameraProbe8 to initiate a call in the "Address" field. Then, click "Ok"
 - c) The unit will automatically respond to a call and establish the connection. You will then see the video, and hear sound from the unit.
- 2. Initiate connection from a securityProbe to OpenPhone (PC)
 - a) Open the program by double clicking "openphone.exe"
 - b) On the web interface, click on the *Applications* tab, and click on *Video Conferencing.*
 - c) select the "Call to" option and enter the IP address of the PC running OpenPhone. Click "Save". to discover your computers IP address in the command prompt type "ipconfig"
 - d) On the OpenPhone application, click "*Answer*" to accept the call.
- 3. <u>Connection between two sensorProbe8Linux/cameraProbe8 (only voice conference).</u>
 - a) On the web interface of the calling sensorProbe8Linux/cameraProbe8, click on the *Applications* tab, and click *Video Conferencing*.
 - b) On the right pane, select the "**Call to**" field and enter the IP address of the receiving sensorProbe8Linux/cameraProbe8 into this field. Click "**Save**"
 - c) The connection should automatically establish.

You can end the video conference call by doing the following:-

- 1. <u>End the call on OpenPhone (PC)</u>: to end call, click the **"Hang Up"** button on the OpenPhone. This method can be used to end the call between the system and OpenPhone.
- End the call on the unit: From the web interface, click on the *Applications* tab and click on *Video Conferencing*. On the right pane, select "End call and wait for a new incoming call" option. Then, click "*Save*"



