securityProbe 5E Standard

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Monitor the physical environment and receive alerts of any disturbances, such as unauthorized intruders, security breaches, high temperatures, smoke, water leakages, power outages and more.

Compatible with all of the AKCP range of Intelligent Sensors it provides a complete environmental, access control and security monitoring solution.

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Introducing the securityProbe5E Standard

The securityProbe5ES has a Linux Operating System with a 2 Gigabytes SD card, installed to provide greater storage capacity. It is TCP / IP compliant and runs lighttpd web server including https (SSL), Bash, Perl, Telnet, PHP, Email and Nagios. The securityProbe5E Standard has an easy-to-use web-based user interface for sensor configuration, data collection and extensive graphing. Complete SNMP functions such including SNMP v3 encryption are supported.

The securityProbe5E Standard also supports Modbus Master / Slave, Modbus RTU and Modbus over TCP / IP creating a unique, easy to configure Modbus to SNMP gateway. The web-based interface is written in PHP allowing end-user changes such as language translation. The securityProbe5E Standard has a battery backed time of day clock for accurate record keeping.
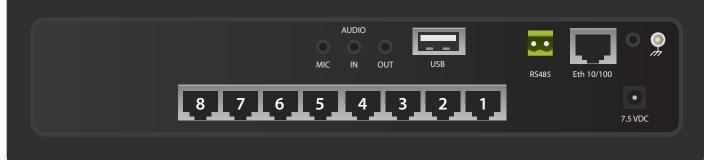
securityProbe 5E Standard

securityProbe5E Standard OnBoard Architecture

Up to 8 of AKCP's Intelligent Sensors can be connected to the securityProbe5E Standard. When plugged in, sensors automatically configure themselves and go 'online'. Using the either the E-sensor 8, or the E-opto 16 expansion modules, up to 500 sensors can be connected to a single unit. Our easy-to-use port numbering system allows you to setup the securityProbe5E within minutes.

- **iMX25 CPU**
- **10/100 Mbps Ethernet Port**
- **1x USB 2.0 Port**

- **RS485 Ports**
- **Internal Audio Speaker**
- **Internal Microphone**
- **8 Full AutoSense RJ-45 Ports**
- **2x RJ-45 Expansion Ports**

AUDIO

MIC   IN   OUT   USB   RS485   Eth 10/100
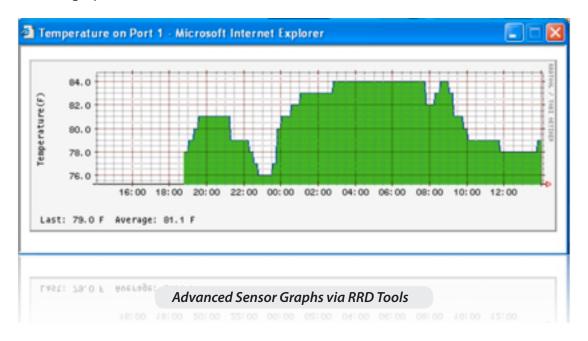
8 7 6 5 4 3 2 1

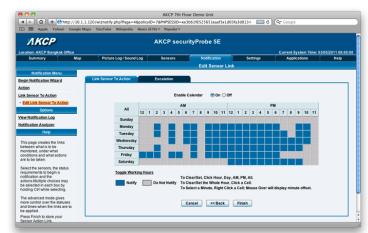7.5 VDC

Applications

Sensor Graphing

The securityProbe5E Standard integrates and displays graphs of all sensor data in its web-based user interface. The individual graph (day, week, month and year) for each sensor type can be customized, simply by modifying the script template used to generate a particular graph. RRD tool is used to build an embedded database of sensor data.

This data can be accessed from the web interface, or downloaded to a remote PC. MRTG can be used to generate real-time graphs of sensor data on a remote website.
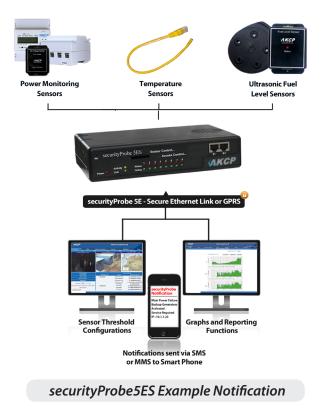

Advanced Sensor Graphs via RRD Tools

False Message Filter

In order to prevent false alarms, the securityProbe5E Standard allows extensive filtering of events.
You can limit events based on the time of day or the day of the week. You can also limit the number of alerts per hour, so that you are not swamped with many messages. This is especially important with the sensor like the motion detector where you may want to process an event only when the business premises are closed.

False Message Filters via Calendar Setups

securityProbe5E Standard

Sensor Integration & Notification System

securityProbe5ES Example Notification

Up to 8 of AKCP's Intelligent S ensors can be connected to the securityProbe5E Standard. When plugged in, the sensor automatically configures itself and goes online. Using the either the E-sensor 8, or the E-opto 16 expansion modules, up to 500 sensors can be connected to a single unit. Our easy-to-use web based interface allows you to setup the securityProbe5E Standard within minutes. When online, the sensors use their 4 levels of threshold checking and report any status change.

Notifications and alarms can be dependent on the states of multiple sensors, and can be configured to escalate in severity over time. The notification system can alert you of a problem via email, SMS messages and telephone calls, (additional hardware required), or send a message to any commercial network monitoring system using SNMP traps. The securityProbe5E Standard can automatically switch a relay on or off, wake-up or shutdown a remote server, send data via FTP, send a FAX, run your custom script and many more versatile functions.

The securityProbe5E Standard can automatically push out the complete status of the unit and sensors via the Heartbeat Message feature. This can be setup to be sent through e-mail, SMS or SNMP traps. A HTTP get script can also be chosen, allowing the data to be pushed to web servers.

Industry Certifications & Network Management Systems

AKCP offers NMS Integration for leading network management systems such as:

- **AdRem NetCrunch**
- **IBM Tivoli**
- **SiteScope**
- **Quest Software – Big Brother**
- **Loriot Pro**
- **Somis WebNM and Denika**

- **Castle Rock**
- **Logalot**
- **WhatsUp Gold**
- **HP OpenView**
- **MRTG**
- **Computer Associates Unicenter TNG**

Support and Warranty

- **Full One Year Global Warranty**
- **Unlimited Lifetime Support.**
- **Free Firmware Updates.**
- **Full, Easy to Follow Documentation.**

securityProbe5E Standard Features List

- Embedded web server displays sensor information and live video from connected cameras.
- Receive notifications of anomalous events via email, SMS / MMS, SNMP traps, and many more.
- Integrates with network management systems via SNMPv1 and Encrypted SNMPv3.
- Stream sensor information directly to your cellphone or PDA.
- Ability to connect external GPRS / GSM modem, Bluetooth and WiFi USB adapters.
- Uses Linux operating system for maximum stability and flexibility.
- Virtual Sensors monitor power, Modbus, network devices, and other SNMP based equipment.
- Built-in graphing and data logging, internally or to a remote PC.
- Platform independent; free firmware upgrades and utilities from AKCP.
- Monitor up to 500 intelligent sensors using expansion modules (E-Opto 16 and E-Sensor 8)
- Compatible with complete range of AKCP Intelligent Sensors
- Full Modbus support : Modbus Master / Slave, Modbus RTU, Modbus over TCP / IP

Technical Specifications

Dimension	Expansion Ports	Mounting
Size : 8.5" x 5.43" x 1.80" Weight : 1.72 Pounds	2x RJ-45 Expansion Ports 115.2K BPS Data Transfer Rate Simultaneous Functionality between Expansion Ports & RS485 Port Threshold Status	Rack Mount Brackets included Compatible with AKCP's DIN and Rack Mount Trays

Power Requirements	Status Indication	Output
Voltage : 7.0 - 9.0 VDC, 3Amp	LED Indication for Power LED for Network Connectivity LED for Sensor Online and Threshold Status	Ext. Speaker Out, 2.5" Jack (Analog) For Modem Application

Power Consumption	Operating Environment	Components
Typical 5.025 Watt, 0.670A	Temp : Min -35°C - Max +55°C Humidity : Min 20% - Max 80% (Non-Condensing)	Manufactured using highly integrated, low power surface mount technology to ensure long term reliablity. iMX25 Processor 128 MB NAND Flash Internal On-Board SD Memory Slot Drive

Inputs	MTBF	Expansion Boards
8x RJ-45 Sensor Ports 2x RJ-45 Expansion Ports 1x USB Port (Version 2.0) Audio In (Analog) 2.5" Jack RS485, 2 Pin Terminal Box (Used for MODBUS)	400,000 Hours	8 Port Intelligent Sensors Module (E-Sensor 8) 16 Port Dry Contacts Module (E-OPTO16) Extendable up to 1,000 Feet or 300 Meters Expansion modules are daisy chainable.