securityProbe5ES-X20

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securityProbe5ES-X20 will monitor the physical environment and alert you of any disturbances, such as unauthorized intruders, security breaches, high temperatures, smoke, water leakages, power outages and much more.

The securityProbe5ES-X20's software motion detection and a rich notification suite keeps you up to date 24 hours a day.

Introducing the securityProbe5ES-X20

The securityProbe5ES-X20 combines all the advantages of the securityProbe 5E but with an additional 20x 2 wire dry contact inputs. Built into a 1U rack mount box. The securityProbe5ES-X20 has a Linux Operating System.

It is TCP/IP compliant and runs lighttpd web server including https (SSL), Bash, Perl, Telnet, PHP, Email and Nagios. The securityProbe5ES-X20 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.

securityProbe5ES-X20 Monitoring System

The securityProbe5ES-X20 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 securityProbe5ES-X20 has a battery backed time of day clock for accurate record keeping.
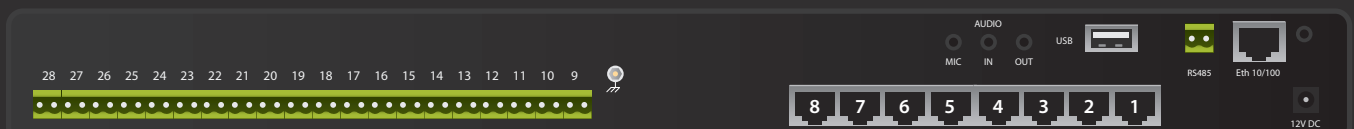
securityProbe5ES-X20's OnBoard Architecture

Up to 8 of AKCP's intelligent sensors can be plugged into the RJ-45 ports of the securityProbe5ES-X20. Once inserted, the sensor automatically configures itself and goes online. Our easy-to-use web based interface allows you to setup the securityProbe5ES-X20 within minutes.

- **8 full autosense RJ-45 ports**
- **AKCP iMX25 Processor**
- **128 Megabytes of NAND Flash**
- **Onboard SD card slot**
- **10/100 Mbps Ethernet and 1 Serial Port**

- **1x USB 2.0 port**
- **RS485 Ports**
- **Internal Audio Speaker**
- **8 full autosense RJ-45 ports**
- **2x RJ45 Expansion Ports**
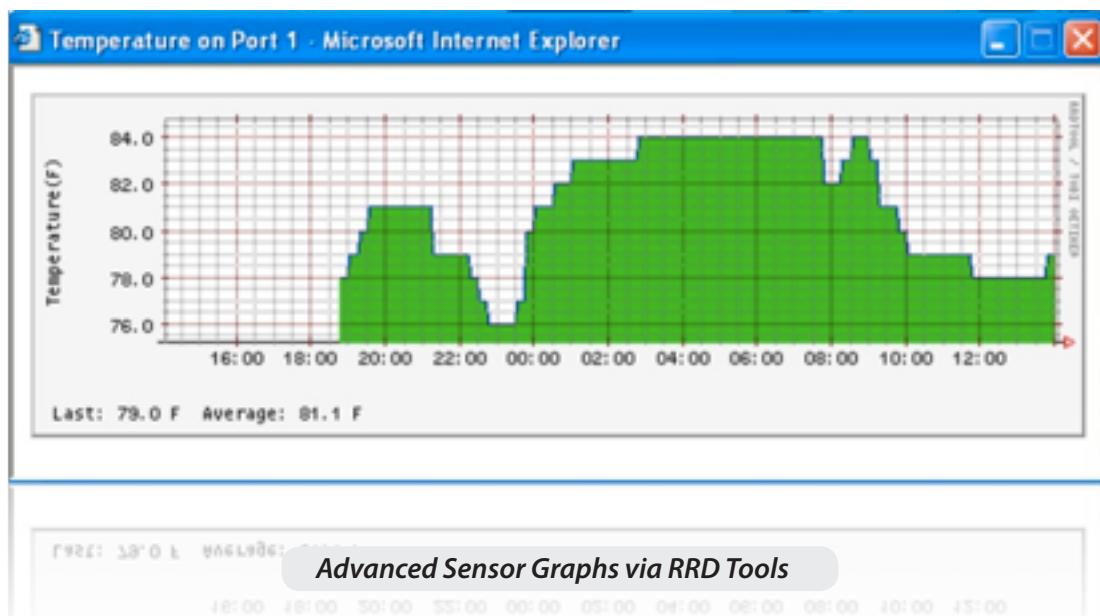- **20 Dry Contact Inputs**

securityProbe5ES-X20
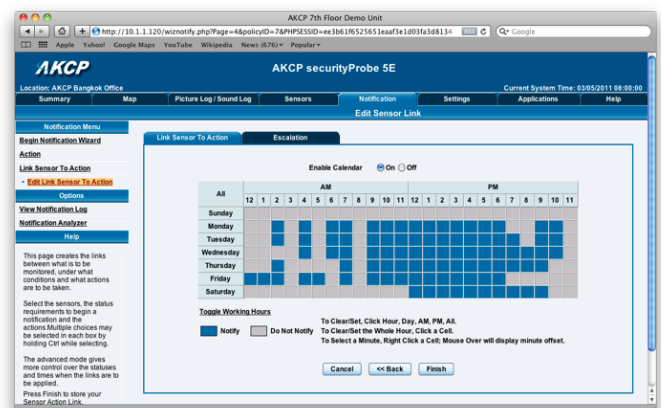
Applications

Sensor Graphing

The securityProbe5ES-X20 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 securityProbe5ES-X20 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

Sensor Integration & Notification System

Up to 8 of AKCP's intelligent sensors can be plugged into the RJ-45 ports of the securityProbe5ES-X20. Once inserted, the sensor automatically configures itself and goes online. Our easy-to-use web based interface allows you to setup the securityProbe5ES-X20 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 securityProbe5ES-X20 can automatically switch a relay on or off, wake-up or shutdown a remote server, send pictures and data via FTP, send a FAX, run your custom script and many more versatile functions.

Event details include the time and the sensor which triggered the event along with the sensor readings. The database can be easily reviewed using our built-in web based analysis system. The securityProbe5ES-X20's system log can be integrated with third party tools for storage and examination.

The securityProbe5ES-X20 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.

securityProbe5ES-X20 Features List

- Embedded web server displays sensor information
- Receive notifications of anomalous events via email, SMS / MMS, SNMP traps, and many more.
- Integrates with network management systems via SNMPv1 and encrypted SNMPv3.
- Ability to connect external GPRS/GSM modem, Bluetooth and WiFi USB adapters.
- Uses Linux operating system for maximum stability and flexibility.
- Virtual Sensors Feature to 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

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.**

Technical Specifications

Dimension	Expansion Ports	Mounting
Size : 17.08" x 5.43" x 1.80" Weight : 3.3 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 6.150 Watt, 0.82Amp	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) 20x Dry Contact Inputs	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.