AKCP GC-AK-SP2

AKCP SensorProbe2-2 Port Intelligent Sensor Monitor User Manual

Model: GC-AK-SP2

1. Introduction

The AKCP SensorProbe2 is an intelligent two-port sensor device designed for comprehensive environmental monitoring. It allows users to monitor critical environmental variations such as temperature, humidity, airflow, power status, and physical security threats from any location with network access. This device integrates an embedded host processor with a proprietary Linux-like operating system, offering robust TCP/IP stack, web server, email, SMS, and full SNMP functionality.
Key features include:

- Built-in web server for easy setup, configuration, and monitoring.
- Supports all major communication protocols.
- Fully SNMP compliant with included SNMP MIB.
- Capable of sending trap notifications to two destinations and email notifications to two addresses.
- Thresholds can be set for all connected sensors.
- Data collection of 8,640 data points per port.
- Flexible mounting options: rack mount, surface mount, or desktop.

2. Product Overview

The SensorProbe2 is a compact and robust device. Familiarize yourself with its components and indicators for proper operation.

Figure 2.1: Front view of the SensorProbe2, showing the Power, Link, Activity, Sensor 1, and Sensor 2 LED indicators. The device is blue with a silver grille.

Figure 2.2: Rear view of the SensorProbe2, detailing the two sensor ports (Sensor 1, Sensor 2), the Ethernet port, and the 7.5V DC power input.

Figure 2.3: Bottom view of the SensorProbe2, displaying the MAC address label, CE and FCC regulatory compliance markings, and "Made in Philippines" text.

LED Indicators:

- **Power:** Indicates the device is receiving power.
- **Link:** Indicates network connectivity.
- **Activity:** Flashes to indicate network data transmission.
- **Sensor 1** / **Sensor 2:** Indicate the status of the connected sensors.

3. Setup and Installation

Follow these steps to set up your SensorProbe2:

1. **Connect Sensors:** Plug your intelligent sensors (e.g., temperature, humidity) into the "Sensor 1" and "Sensor 2" ports on the rear of the device.
2. **Connect Network:** Connect an Ethernet cable from your network switch or router to the "Ethernet" port on the rear of the device.
3. **Connect Power:** Plug the provided 7.5V DC power adapter into the "7.5V DC" input port and then into a power outlet. The "Power" LED on the front of the device should illuminate.
4. **Initial Configuration:**
    - The SensorProbe2 will obtain an IP address via DHCP by default. You can find its IP address using network scanning tools or by checking your DHCP server logs.
    - Open a web browser and enter the device's IP address to access its web interface.
    - Log in using the default credentials (refer to the device's documentation or the AKCP website for default username/password).
    - Configure network settings (if static IP is desired), sensor thresholds, alert notifications (email, SMS, SNMP traps), and other parameters as needed.

4. Operation

Once configured, the SensorProbe2 operates autonomously, continuously monitoring connected sensors and triggering alerts based on predefined thresholds.

Monitoring Sensor Data:

- Access the web interface at any time by entering the device's IP address in your web browser. The dashboard provides real-time readings from all connected sensors.
- Review historical data, which is collected and stored for up to 8,640 data points per port.

Alerts and Notifications:

- **Email Notifications:** Configure email recipients in the web interface to receive alerts when sensor thresholds are breached.
- **SMS Text Messages:** Utilize a third-party email-to-SMS gateway service to receive text message alerts.
- **SNMP Traps:** Integrate the SensorProbe2 into your existing SNMP monitoring system. The device will send SNMP traps to configured destinations upon alert conditions.
- **Advanced Event Filtering:** Utilize the advanced event filtering options within the web interface to fine-tune when and how alerts are triggered, reducing false positives and ensuring critical notifications are received.

5. Maintenance

The SensorProbe2 is designed for reliable, low-maintenance operation. However, periodic checks can ensure optimal performance:

- **Physical Inspection:** Periodically inspect the device and its connections for any signs of damage or loose cables.
- **Cleaning:** Keep the device free from dust and debris. Use a soft, dry cloth for cleaning. Do not use liquid cleaners.
- **Firmware Updates:** Check the official AKCP website (www.akcp.com) for any available firmware updates. Applying updates can provide new features, performance improvements, and security enhancements. Follow the instructions provided by AKCP for firmware upgrade procedures.
- **Sensor Calibration:** If using sensors that require calibration (e.g., certain humidity sensors), follow the sensor manufacturer's guidelines for periodic calibration to ensure accuracy.

6. Troubleshooting

This section provides solutions to common issues you might encounter with your SensorProbe2.

Common Issues and Solutions:

- **Device Not Powering On:**
  - Ensure the power adapter is securely connected to the device and a working power outlet.
  - Verify the power outlet is active.
  - Check if the power adapter is the correct voltage (7.5V DC) and polarity.
- **No Network Connectivity (Link LED Off):**
  - Check the Ethernet cable connection between the SensorProbe2 and your network switch/router.
  - Ensure the network port on your switch/router is active.
  - Try a different Ethernet cable.
  - Verify network settings (IP address, subnet mask, gateway) in the device's web interface are correct for your network.
- **Sensors Not Reporting Data (Sensor LEDs Off/Incorrect):**

- Ensure sensors are securely plugged into the correct ports (Sensor 1, Sensor 2).
- Verify the sensors are compatible with the SensorProbe2.
- Check the sensor status in the device's web interface for error messages.
- Try connecting the sensor to the other port to rule out a faulty port.

- **Cannot Access Web Interface:**
  - Confirm the device has power and network connectivity (Power and Link LEDs are on).
  - Verify you are using the correct IP address for the device.
  - Ensure your computer is on the same network subnet as the SensorProbe2.
  - Clear your browser's cache or try a different browser.
  - If you have forgotten the password, refer to AKCP's support documentation for password reset procedures.

For further assistance, please refer to the official AKCP support resources or contact their technical support team.

7. Technical Specifications

Feature	Specification
Model Number	GC-AK-SP2
Manufacturer	AKCP
Item Weight	3.84 ounces
Product Dimensions	2.5 x 1.3 x 4.5 inches
Power Source	Battery Powered (Note: Device itself is powered by 7.5V DC adapter, internal battery for clock)
Voltage	7 Volts (Operating Voltage)
Item Package Quantity	1
Measurement System	Metric
Included Components	Temperature Sensors (Note: This refers to the capability, sensors are typically sold separately or as a kit)
Batteries Required?	No (for main operation, but has battery backed clock)
Date First Available	January 9, 2018

Note: "Battery Powered" and "Batteries Required?" specifications from source data may refer to internal clock battery or general power classification. The device operates via a 7.5V DC adapter.

8. Warranty and Support

For information regarding product warranty, please refer to the warranty documentation included with your SensorProbe2 or visit the official AKCP website. AKCP provides comprehensive support for its products.
AKCP Official Website: www.akcp.com
On the website, you can find:

- Product documentation and downloads

- Frequently Asked Questions (FAQs)
- Technical support contact information
- Firmware updates

When contacting support, please have your product model number (GC-AK-SP2) and any relevant error messages or observations ready.