APC AP98275

APC Simple Signaling Serial Cable AP98275 User Manual

Model: AP98275

Introduction

This manual provides essential instructions for the proper installation, operation, and maintenance of your APC Simple Signaling Serial Cable, model AP98275. This cable is designed to facilitate communication between APC Uninterruptible Power Supplies (UPS) and connected equipment, enabling basic signaling functions.

Product Overview

The APC Simple Signaling Serial Cable (AP98275) is a specialized cable used for connecting APC UPS units to servers or other devices for basic communication. It typically features DB9 serial connectors and may include an RJ45 adapter for specific UPS models.

Figure 1: Various APC Simple Signaling Serial Cables. This image displays different configurations of the APC Simple Signaling Serial Cable, including cables with two DB9 connectors (male and female), and an adapter converting an RJ45 connector to a DB9 serial port. These cables are used for basic communication between APC UPS systems and connected equipment.

Setup and Installation

1. **Identify Ports:** Locate the serial communication port on your APC UPS and the corresponding serial port on the device you wish to connect (e.g., server, workstation). These are typically DB9 ports.
2. **Connect to UPS:** Plug one end of the APC Simple Signaling Serial Cable into the communication port on your APC UPS. Ensure a secure connection.
3. **Connect to Device:** Plug the other end of the serial cable into the serial port of your connected device. If your UPS uses an RJ45 port for signaling, use the appropriate RJ45-to-DB9 adapter (if included or required) to connect the serial cable.
4. **Secure Connections:** Tighten any thumbscrews on the DB9 connectors to prevent accidental disconnection.
5. **Software Configuration (if applicable):** Refer to your UPS and operating system documentation for any necessary software or driver installations and configuration settings to enable simple signaling communication.

Operation

Once connected, the APC Simple Signaling Serial Cable facilitates basic communication between the UPS and the connected device. This typically includes:

- **UPS Status Monitoring:** The connected device can receive basic status updates from the UPS, such

as "on battery" or "low battery" signals.

- **Automatic Shutdown:** In the event of a power outage and subsequent low battery condition, the UPS can signal the connected device to perform an orderly shutdown, preventing data loss.

Specific functionality depends on the UPS model and the software running on the connected device. Consult your UPS user manual for detailed information on supported simple signaling features.

Maintenance

- **Regular Inspection:** Periodically inspect the cable for any signs of damage, such as cuts, frayed insulation, or bent pins on the connectors.
- **Cleaning:** Keep the connectors clean and free of dust and debris. Use a dry, lint-free cloth for cleaning. Do not use liquid cleaners directly on the connectors.
- **Proper Storage:** When not in use, store the cable in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid kinking or tightly coiling the cable.
- **Avoid Stress:** Do not pull on the cable itself to disconnect it; always grasp the connector housing. Avoid placing heavy objects on the cable.

Troubleshooting

Problem	Possible Cause	Solution
No communication between UPS and device.	Loose cable connection. Incorrect port used. Damaged cable. Incorrect software configuration.	Ensure both ends of the cable are securely connected. Verify that the cable is plugged into the correct serial communication ports on both the UPS and the device. Inspect the cable for visible damage; replace if necessary. Check software settings on the connected device and UPS for proper serial port configuration (e.g., COM port, baud rate).
Intermittent communication.	Loose connection. Electromagnetic interference (EMI).	Secure all connections. Ensure the cable is not routed near sources of strong electromagnetic interference (e.g., power cables, motors).
Device does not shut down during power outage.	Communication failure. Software not configured for shutdown.	Verify communication as described above. Ensure the UPS management software on the connected device is installed and correctly configured to initiate a shutdown upon receiving a low battery signal from the UPS.

Specifications

- **Model Number:** AP98275
- **Brand:** APC
- **Product Type:** Serial Communication Cable
- **Connector Type:** DB9 (typically male-to-female or male-to-male, with potential RJ45 adapter)
- **Compatibility:** Designed for APC UPS models including SRV1KA-TW, SRV1KI-TW, SRV2KA-TW,

SRV2KI-TW, SRV3KA-TW, SRV3KI-TW, SRV6KI-TW.

- **UPC:** 731304293422
- **EAN:** 00731304293422

Warranty and Support

For information regarding warranty coverage, technical support, or replacement parts, please refer to the documentation provided with your APC UPS unit or visit the official APC website. Keep your purchase receipt for warranty claims.

Manufacturer: APC