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## Mavrik P8903-51

# Anets P8903-51 WRG High Limit Switch Instruction Manual

Model: P8903-51

## INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of the Anets P8903-51 WRG High Limit Switch. This component is designed to ensure safety and proper function in compatible industrial equipment by preventing overheating.

## PRODUCT OVERVIEW



**Figure 1:** The Anets P8903-51 WRG High Limit Switch. This image displays the switch component with its attached wiring, including two white insulated wires, a light blue wire connector, and two blue wire nuts. The wires are coiled, and the overall appearance suggests an electrical component for industrial use.

The Anets P8903-51 is a critical safety device. It is typically used in heating applications to cut off power to a heating element if a predetermined maximum temperature is exceeded, thereby preventing damage to equipment or potential hazards.

## SAFETY INFORMATION

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Always observe the following safety precautions:

- Disconnect power to the equipment before installation or maintenance.
- Installation should only be performed by qualified personnel.
- Ensure proper grounding and wiring according to local electrical codes.
- Do not bypass or tamper with the high limit switch.
- Refer to the equipment's primary manual for specific wiring diagrams.

## INSTALLATION

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The P8903-51 high limit switch is designed for specific applications. Follow the equipment manufacturer's instructions for precise installation.

1. **Power Disconnection:** Ensure all power to the equipment is completely disconnected and locked out before beginning installation.
2. **Locate Mounting Point:** Identify the designated mounting location for the high limit switch within the equipment, typically near the heating element or temperature-sensitive area.
3. **Secure Switch:** Mount the P8903-51 switch securely using appropriate fasteners. Ensure the sensor bulb (if applicable, though not visible in image, common for high limits) is correctly positioned to monitor the critical temperature.
4. **Wiring:** Connect the switch wires according to the equipment's wiring diagram. The provided wire nuts (blue) are for securing electrical connections. Ensure all connections are tight and insulated.
5. **Verify Installation:** Double-check all connections and mounting before restoring power.

## OPERATION

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The Anets P8903-51 is an automatic safety device. It operates passively by monitoring temperature. When the temperature at its sensing point exceeds its factory-set limit, the switch will open its internal contacts, interrupting the power supply to the controlled component (e.g., heating element).

- **Normal State:** Under normal operating temperatures, the switch contacts remain closed, allowing power to flow.
- **Over-Temperature Event:** If the temperature rises above the specified limit, the switch opens, cutting power.
- **Reset:** Depending on the specific design of the equipment, the high limit switch may require a manual reset once the temperature has cooled sufficiently. Refer to the equipment's primary manual for reset procedures.

## MAINTENANCE

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The P8903-51 high limit switch is a sealed component and generally requires no internal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Regularly inspect the switch and its wiring for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Ensure the area around the switch and its sensor (if applicable) is free from dust, grease, or debris that could impede accurate temperature sensing.

- **Functionality Check:** If the equipment experiences frequent high-limit trips, it may indicate an issue with the equipment itself or a failing switch. Consult a qualified technician for diagnosis.

## TROUBLESHOOTING

If the equipment is not operating correctly and the high limit switch is suspected:

| Symptom                          | Possible Cause  | Action   |
|----------------------------------|---|--|
| Equipment not heating / No power | High limit switch tripped   | Allow equipment to cool. If manual reset, follow equipment's reset procedure. Investigate cause of over-temperature.       |
| Frequent high limit trips        | Overheating issue in equipment, faulty switch, or improper installation | Check equipment's primary thermostat/controls. Verify proper ventilation. Inspect switch wiring. Replace switch if faulty. |
| Switch appears damaged           | Physical damage or electrical fault                                     | Disconnect power and replace the switch immediately.   |

*Note:* Always consult a qualified service technician for complex diagnostic and repair procedures.

## SPECIFICATIONS

**Model:** P8903-51

**Part Number:** P8903-51 WRG

**Type:** High Limit Switch

**Manufacturer:** Anets

**Brand:** Mavrik

**Dimensions:** Approximately 3 x 0.5 x 2.5 inches (7.62 x 1.27 x 6.35 cm)

**Weight:** Approximately 1 Pound (0.45 kg)

**Keywords:** Anets, P8903-51, WRG, HIGH, LIMIT, HT-4-22"RED, RS

*Note:* Specific temperature ratings are typically marked on the switch itself or provided in the equipment's service manual.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your original equipment or contact the equipment manufacturer. This component is a replacement part, and its warranty is typically covered under the terms of the original equipment or the distributor from whom it was purchased.

For further assistance, you may also contact the brand Mavrik or the manufacturer Anets through their official channels.