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› HEXEH Antifreeze Switch Low Temperature Protector Temperature Controller QAF81.3 Instruction Manual

HEXEH QAF81.3

HEXEH Antifreeze Switch Low Temperature Protector Temperature Controller

MODEL: QAF81.3

1. Introduction

The HEXEH Antifreeze Switch Low Temperature Protector Temperature Controller, model QAF81.3, is designed to prevent damage caused by icing in various industrial, automation, and engineering environments. This device functions as a temperature-activated switch, ensuring protection against low-temperature conditions. Its compact structure, light weight, and small volume facilitate simple and convenient installation. This manual provides essential information for the safe and effective use of your HEXEH QAF81.3 controller.

2. Safety Information

- Always disconnect power before installation, maintenance, or troubleshooting.
- Installation should be performed by qualified personnel in accordance with local electrical codes and regulations.
- Do not expose the device to extreme temperatures or humidity beyond its specified operating range.
- Ensure all connections are secure to prevent electrical hazards.
- Do not attempt to modify or repair the device. Contact technical support for assistance.

3. Package Contents

Please verify that all items are present and undamaged upon opening the package:

- HEXEH Antifreeze Switch Low Temperature Protector Temperature Controller (QAF81.3)
- Integrated temperature sensor (coiled copper tube)
- Instruction Manual (this document)



Image: The HEXEH QAF81.3 Antifreeze Switch as it appears in its retail packaging.

4. Setup and Installation

The QAF81.3 controller is designed for straightforward installation. Follow these general guidelines:

1. **Mounting:** Secure the main unit in a suitable location using appropriate fasteners. Ensure the mounting surface is stable and free from excessive vibration.
2. **Sensor Placement:** Position the coiled temperature sensor in the area where antifreeze protection is required. Ensure good thermal contact with the medium or surface to be monitored. The sensor cable length for model QAF81.3 is 3 meters.
3. **Electrical Connection:** Connect the device to the power supply and the controlled load (e.g., heating element, pump) according to the wiring diagram provided with the product or by a qualified electrician. Verify voltage and current ratings before connecting.



Image: The HEXEH QAF81.3 unit showing the main body and the coiled temperature sensor, which should be placed in the area requiring temperature monitoring.

5. Operating Instructions

The HEXEH QAF81.3 operates automatically to protect against low temperatures. Once properly installed and powered, the device continuously monitors the temperature via its integrated sensor. When the ambient temperature falls below a pre-set threshold, the internal switch activates, typically engaging a connected heating system or other protective measures. Conversely, when the temperature rises above the threshold, the switch deactivates. There are no user-adjustable settings on this model; its function is automatic based on its factory calibration.

6. Maintenance

The QAF81.3 is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance:

- **Cleaning:** Keep the device and sensor free from dust, dirt, and debris. Use a soft, dry cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Inspection:** Periodically inspect the wiring and connections for any signs of wear, damage, or corrosion. Ensure the sensor remains securely in its intended position.
- **Environmental Conditions:** Verify that the operating environment remains within the specified temperature and humidity limits.

7. Troubleshooting

If you encounter issues with your HEXEH QAF81.3, consider the following:

- **Device Not Activating/Deactivating:**

- Check the power supply to ensure the device is receiving power.
- Verify all electrical connections are correct and secure.
- Ensure the temperature sensor is correctly positioned and making good thermal contact.
- Confirm the ambient temperature is within the device's activation/deactivation range.

- **No Power Indication:**

- Check the circuit breaker or fuse for the power circuit.
- Inspect the power cable for damage.

If problems persist after performing these checks, please contact HEXEH technical support.

8. Specifications



Image: The HEXEH QAF81.3 unit, displaying its product label with key specifications and country of origin.

Feature	Specification
Model Number	QAF81.3
Manufacturer	HEXEH
Item Weight	1.32 pounds (0.6 kg)
Package Dimensions	1.18 x 0.79 x 0.39 inches (3 x 2 x 1 cm)

Sensor Cable Length	3 meters (for QAF81.3)
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9. Warranty and Support

HEXEH is committed to providing reliable products and excellent customer service. While specific warranty details are not provided in this manual, we offer technical support for our products.

If you encounter any technical problems or have questions regarding the installation, operation, or maintenance of your QAF81.3 Antifreeze Switch, please do not hesitate to contact us. Our technical support team will respond as soon as possible to assist you.

Contact Technical Support: Please refer to the contact information provided with your purchase or on the official HEXEH website.

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