

## HEXEH DKG972-N MOD.05

# HEXEH DKG972-N MOD.05 Ignition Burner Controller User Manual

Model: DKG972-N MOD.05 | Brand: HEXEH

## 1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the HEXEH DKG972-N MOD.05 Ignition Burner Controller. This device is designed for use in industrial equipment requiring heat energy, such as power plants and heating furnaces, to ensure reliable ignition and stable burner operation.

The DKG972-N series controllers are engineered to replace aged or damaged components, thereby resolving issues related to inoperative or unstable equipment performance. Adherence to the instructions outlined in this manual is crucial for optimal performance and safety.

## 2. SAFETY INFORMATION

**WARNING:** Failure to follow these safety instructions may result in electric shock, fire, or serious injury.

- Always switch off the main power supply to the equipment before installation, maintenance, or any service procedures to prevent accidents.
- Installation and servicing should only be performed by qualified and authorized personnel.
- Ensure all wiring connections comply with local and national electrical codes.
- Do not operate the controller if it appears damaged or has been exposed to moisture.
- Verify correct voltage and frequency ratings before connecting the controller to the power supply.

## 3. PRODUCT OVERVIEW

The HEXEH DKG972-N MOD.05 is a robust ignition burner controller designed for industrial applications. It undergoes strict technical tests to ensure durability and a long service life, resisting damage and deformation under typical operating conditions.



Figure 3.1: General view of the HEXEH DKG972-N Ignition Burner Controller. This image displays the compact, clear-cased design, revealing internal circuitry and connection points, with product labeling visible on the side.

The controller's primary function is to manage the ignition sequence and monitor the flame in industrial burners, ensuring safe and efficient operation. Its standard size and specifications allow for direct replacement of existing units.

## 4. SETUP AND INSTALLATION

The DKG972-N MOD.05 controller is designed for straightforward installation, facilitating quick replacement of old or damaged units.

1. **Power Disconnection:** Before beginning any installation work, ensure that the main power supply to the industrial equipment is completely switched off and secured against accidental re-energization.
2. **Access:** Gain access to the existing burner controller or the designated installation area for the new unit.
3. **Removal (if replacing):** Carefully disconnect all wiring from the old controller, noting the position and function of each wire. It is recommended to label wires to avoid confusion.
4. **Mounting:** Mount the HEXEH DKG972-N MOD.05 controller securely in the designated location. Its

standard dimensions ensure compatibility with common industrial setups.

5. **Wiring:** Connect the electrical wiring to the new controller according to the equipment's wiring diagram and the controller's terminal markings. Double-check all connections for tightness and correctness.
6. **Verification:** After installation, visually inspect all connections and ensure the controller is properly seated and secured.
7. **Power Restoration:** Once installation is complete and verified, restore power to the equipment.

**Note:** The standard size and specifications of this controller allow for direct replacement, making the process convenient and time-saving.

## 5. OPERATING INSTRUCTIONS

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Once properly installed and powered, the HEXEH DKG972-N MOD.05 controller operates automatically to manage the burner's ignition and flame supervision processes. Specific operational details will depend on the industrial equipment it is integrated into.

- **Ignition Sequence:** Upon receiving a start signal from the main control system, the controller initiates the ignition sequence, typically involving pre-purge, ignition spark, and fuel valve opening.
- **Flame Supervision:** The controller continuously monitors the flame presence. If the flame is not established within a set safety time or is lost during operation, the controller will initiate a safety shutdown.
- **Status Indicators:** The controller may feature visual indicators (e.g., LEDs) to display its operational status, fault conditions, or specific stages of the ignition sequence. Refer to the equipment's primary control panel for detailed status information.

For detailed operational parameters and integration with your specific industrial equipment, consult the equipment's primary operating manual.

## 6. MAINTENANCE

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The DKG972-N MOD.05 controller is designed for minimal maintenance. However, periodic checks are recommended to ensure continued reliable operation.

- **Visual Inspection:** Regularly inspect the controller for any signs of physical damage, discoloration, or loose connections.
- **Environmental Conditions:** Ensure the operating environment remains within specified temperature and humidity ranges to prevent premature component degradation.
- **Cleaning:** If necessary, gently clean the exterior of the controller with a dry, soft cloth. Do not use liquid cleaners or solvents.
- **Connection Integrity:** Periodically check that all electrical connections are secure and free from corrosion.

Any internal servicing or repair should only be conducted by qualified service technicians.

## 7. TROUBLESHOOTING

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This section provides general guidance for common issues. For complex problems, consult a qualified technician.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Burner fails to ignite	No power to controller; faulty ignition electrode; no fuel supply; flame sensor issue.	Check power supply; inspect and clean/replace ignition electrode; verify fuel supply; check flame sensor.
Controller enters lockout/safety shutdown	Flame not established within safety time; flame loss during operation; internal fault.	Reset controller (if applicable and safe); check ignition and fuel supply; inspect flame sensor; consult technician for internal faults.
Intermittent operation	Loose wiring connections; unstable power supply; environmental interference.	Inspect and tighten all wiring; verify stable power supply; ensure proper grounding.

Always ensure power is disconnected before inspecting or attempting to fix any issues involving electrical components.

## 8. SPECIFICATIONS

- **Model:** DKG972-N MOD.05
- **Brand:** HEXEH
- **Package Dimensions:** 1.18 x 0.79 x 0.39 inches
- **Item Weight:** 2.2 pounds
- **Manufacturer:** HEXEH
- **Assembly Required:** No
- **Number of Pieces:** 1

## 9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your supplier. Ensure you have your product model number (DKG972-N MOD.05) and purchase details available when seeking support.