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LenxTi LGA52.171B27

LenxTi LGA52.171B27 Gas Burner Controls User Manual

Model: LGA52.171B27

Brand: LenxTi

1. INTRODUCTION

The LenxTi LGA52.171B27 Gas Burner Control is designed for the reliable startup and supervision of atmospheric gas burners operating in intermittent mode. This control unit monitors the flame using an ionization probe, ensuring safe and efficient operation. It is suitable for industrial production equipment and is fully compatible with equivalent SIEMENS series products.



Front view of the LenxTi LGA52.171B27 Gas Burner Control, showing the model number, voltage, frequency, power consumption, IP rating, and compliance standards.

2. IMPORTANT SAFETY INFORMATION

Read all instructions carefully before installation and operation. Failure to follow these instructions could result in property damage, serious injury, or death.

- Installation and servicing must be performed by qualified personnel only.
- Disconnect power before performing any work on the control unit or burner system.
- Ensure proper grounding to prevent electrical shock.
- Verify all wiring connections are secure and correct according to local codes and wiring diagrams.
- Do not operate the burner control if it is damaged or has been exposed to moisture.
- This device is designed for specific applications; do not use it for purposes other than those specified.



Angled view of the LenxTi LGA52.171B27 Gas Burner Control, highlighting its robust casing and label details.

3. PRODUCT FEATURES

- Designed for startup and supervision of atmospheric gas burners.
- Intermittent operation capability.
- Flame supervision via ionization probe.
- Robust and durable construction, tested for long service life.
- Standard size and specifications for direct replacement.
- Compatible with SIEMENS series products of the same type.
- Operating voltage: 220-240V~.
- Frequency: 50-60Hz.
- Power consumption: 3VA.
- Ingress Protection: IP40.
- Safety Time (TSA): ≤10s, TSA max: ≤20s.
- EN 298:2012 compliant.

4. SETUP AND INSTALLATION

The LenxTi LGA52.171B27 is designed for easy installation as a direct replacement for compatible burner controls.

4.1 Pre-Installation Checks

- Ensure the power supply matches the control unit's requirements (220-240V~, 50-60Hz).
- Verify that the existing wiring and system components are in good working order.
- Confirm that the mounting location is free from excessive heat, moisture, and vibration.

4.2 Installation Steps

1. **Disconnect Power:** Turn off the main power supply to the burner system at the circuit breaker.
2. **Remove Old Unit (if applicable):** Carefully disconnect all wiring from the existing burner control and remove it from its mounting. Note the position of each wire for correct re-connection.
3. **Mount New Unit:** Securely mount the LenxTi LGA52.171B27 in the designated location.
4. **Wire Connections:** Connect the system wiring to the appropriate terminals on the LGA52.171B27. Refer to the burner system's specific wiring diagram for accurate connections. Pay close attention to power, ground, flame sensor, and valve connections.
5. **Verify Connections:** Double-check all wiring for correct placement and secure connections.
6. **Restore Power:** Once all connections are verified, restore power to the burner system.



This image displays the underside of the LenxTi LGA52.171B27 Gas Burner Control, revealing the array of numbered pin connectors. These connectors are where the electrical wiring from the burner system, including power, flame sensor, and gas valve connections, are securely attached during installation. Proper connection to these pins is crucial for the correct functioning of the control unit.

5. OPERATING INSTRUCTIONS

The LGA52.171B27 operates automatically once installed and powered. It manages the startup sequence and continuous supervision of the gas burner.

5.1 Startup Sequence

1. Upon power-up, the control unit initiates a self-check.
2. It then proceeds with pre-purge (if configured by the burner system).
3. Ignition is initiated, and the gas valve opens.
4. The ionization probe detects the flame.
5. If a stable flame is detected within the Safety Time (TSA $\leq 10s$, max $\leq 20s$), the burner continues operation.
6. If no flame is detected, or if the flame is lost during operation, the control unit will enter a lockout state.

5.2 Normal Operation

During normal operation, the LGA52.171B27 continuously monitors the flame signal. If the flame signal is lost, the unit will shut down the gas supply and enter a lockout state for safety.

5.3 Resetting After Lockout

If the control unit enters a lockout state, it typically requires a manual reset. Refer to your specific burner system's instructions for the reset procedure, which usually involves cycling the power or pressing a reset button on the burner system. Investigate and resolve the cause of the lockout before resetting.

6. MAINTENANCE

The LenxTi LGA52.171B27 Gas Burner Control is designed for robust and reliable operation with minimal maintenance. However, regular checks of the overall burner system are recommended.

- **Annual Inspection:** Have a qualified technician inspect the entire burner system annually, including the burner control, flame sensor (ionization probe), and wiring connections.
- **Cleanliness:** Ensure the control unit and its surroundings are kept clean and free from dust, debris, and moisture.
- **Wiring Integrity:** Periodically check all wiring connections for tightness and signs of wear or damage.
- **Flame Sensor:** Ensure the ionization probe is clean and correctly positioned for optimal flame detection.

Note: Do not attempt to open or repair the control unit yourself. Refer all servicing to qualified personnel.

7. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
Burner does not start	No power to control unit	Check circuit breaker and power supply.
Burner does not start	Control unit in lockout	Reset the burner system. Investigate cause of lockout (e.g., no gas, faulty ignition).
Burner ignites but immediately shuts down	Weak or no flame signal	Check ionization probe for cleanliness, position, and wiring. Ensure stable gas supply.
Intermittent operation/unexpected shutdowns	Unstable power supply or faulty connections	Verify power supply stability. Check all wiring connections for tightness.

8. TECHNICAL SPECIFICATIONS

- **Model:** LGA52.171B27
- **Brand:** LenxTi
- **Manufacturer:** Shenzhen LenxTi Software Tech Co., Ltd.
- **Application:** Startup and supervision of atmospheric gas burners
- **Operation Mode:** Intermittent
- **Flame Supervision:** Ionization probe
- **Voltage:** 220-240V~
- **Frequency:** 50-60Hz
- **Power Consumption:** 3VA
- **Ingress Protection (IP) Rating:** IP40
- **Safety Time (TSA):** ≤10s (startup), ≤20s (max)

- **Compliance:** EN 298:2012
- **Weight:** 200 Grams
- **Included Components:** Burner controller
- **Compatibility:** Fully compatible with SIEMENS series products of the same type.

9. WARRANTY AND SUPPORT

9.1 Warranty Information

This LenxTi LGA52.171B27 Gas Burner Control comes with a **1-Year Warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use. It does not cover damage resulting from improper installation, misuse, accidents, unauthorized repairs, or modifications.

9.2 Technical Support

For technical assistance, installation queries, or troubleshooting beyond the scope of this manual, please contact LenxTi customer support.

Email: support@lenxti.com (Note: This is a placeholder email address for demonstration purposes. Refer to your product packaging or official LenxTi website for actual support contact information.)

When contacting support, please provide your product model number (LGA52.171B27) and a detailed description of the issue.