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## Honeywell TF832.3

# Honeywell Satronic TF832.3 Oil Burner Control Box Instruction Manual

Model: TF832.3 (S01-TF832.3)

Brand: Honeywell

## INTRODUCTION

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This manual provides essential information for the safe and effective installation, operation, and maintenance of the Honeywell Satronic TF832.3 Oil Burner Control Box. This device is designed to control and monitor oil burners, ensuring reliable and safe ignition and operation in heating systems.

## SAFETY INFORMATION

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Please read and understand all safety instructions before attempting to install, operate, or service this control box. Failure to follow these instructions could result in serious injury, death, or property damage.

- **Professional Installation Required:** Installation, servicing, and maintenance must be performed exclusively by qualified and authorized personnel. Incorrect installation can lead to severe hazards.
- **Electrical Hazard:** Always disconnect all electrical power to the appliance and the control box before performing any installation, wiring, or servicing. Failure to do so can result in electric shock.
- **Combustion Safety:** Ensure proper ventilation and adhere to all local and national codes and regulations pertaining to oil burner installations and combustion safety.
- **Original Parts:** For optimal performance and safety, use only genuine Honeywell replacement parts.

## PRODUCT OVERVIEW AND WIRING DIAGRAM

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The Honeywell Satronic TF832.3 is an automatic oil burner control box engineered for single-stage oil burners. It manages the ignition sequence, flame supervision, and safety shutdown in the event of a malfunction.



*Image Description:* This image displays the Honeywell Satronic TF832.3 control box with its integrated wiring diagram on the transparent top cover. The diagram illustrates numbered terminals (1 through 9) and standard electrical symbols representing key components of an oil burner system. These include connections for the ignition transformer (Z), burner motor (M), solenoid valves (V1, V2), flame sensor (SA), neutral (N), and live (L) power inputs, as well as safety devices like room thermostats (RT), safety thermostats (ST), and a high-limit switch (HS). Multilingual text on the diagram, including "WITHOUT solenoid valve: motor on 5," provides specific wiring guidance.

## Terminal Connections

The control box features clearly numbered terminals for connecting various components of the oil burner system. Always refer to the wiring diagram printed on the unit for precise connection details and consult the burner manufacturer's instructions.

- **Terminal 1 (MZ):** Typically for the ignition transformer primary circuit.
- **Terminal 2:** Often connected in conjunction with Terminal 1 for the ignition transformer.
- **Terminal 3 (Z):** Connection point for the ignition transformer.
- **Terminal 4 (M):** Connection for the burner motor.
- **Terminal 5 (V1):** Connection for the first solenoid valve.
- **Terminal 6 (V2):** Connection for the second solenoid valve, if applicable in a two-stage system.

- **Terminal 7 (SA):** Connection for the flame sensor (e.g., photocell or UV sensor).
- **Terminal 8 (N):** Neutral power connection.
- **Terminal 9 (RT, ST, HS):** Connections for various safety and control thermostats, such as Room Thermostat (RT), Safety Thermostat (ST), and High-Limit Switch (HS).

**Note on Solenoid Valve:** The diagram includes the instruction "OHNE Magnetventil: Motor auf 5" (German), translated as "WITHOUT solenoid valve: motor on 5" (English), "SANS vanne: moteur sur 5" (French), and "SENZA valvola: motore di 5" (Italian). This indicates a specific wiring configuration or operational mode where, if no solenoid valve is present, the burner motor connection might be routed through terminal 5. Always consult the complete technical documentation for your specific burner setup to ensure correct wiring.

## INSTALLATION AND SETUP

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Installation of the Honeywell Satronic TF832.3 must be performed by a qualified heating technician in accordance with all applicable electrical and safety codes.

- **Mounting:** Mount the control box in a dry, protected location, away from excessive heat, vibration, and moisture. Ensure it is easily accessible for future servicing.
- **Wiring:** Follow the provided wiring diagram on the unit and the burner manufacturer's instructions precisely. Ensure all electrical connections are secure, tight, and comply with local electrical codes. Use appropriate wire gauges for all connections.
- **Grounding:** Properly ground the control box and the entire burner system to prevent electrical hazards and ensure safe operation.
- **Initial Checks:** Before applying power, thoroughly verify all connections, ensure there are no loose wires, and confirm that all safety devices (thermostats, high-limit switches) are correctly installed and functioning as intended.

## OPERATING INSTRUCTIONS

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The TF832.3 control box operates automatically to manage the oil burner's sequence of operations, ensuring safe and efficient heating.

- **Start-up Sequence:** Upon receiving a call for heat from the thermostat, the control box initiates a pre-purge cycle to clear the combustion chamber. This is followed by ignition, the opening of the fuel valve, and the establishment of a stable flame.
- **Flame Supervision:** The flame sensor continuously monitors the presence and stability of the flame. If a flame is not established within the specified safety time, or if the flame is lost during operation, the control box will initiate a safety shutdown.
- **Safety Lockout:** In the event of a fault (e.g., no ignition, flame failure, or other system errors), the control box will enter a lockout state. This requires a manual reset to resume operation.
- **Resetting:** To reset the control box after a lockout, press the reset button (if present and accessible on your burner system) or cycle the power to the burner system. Always consult your specific burner's instructions for the correct reset procedures.

## MAINTENANCE

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Regular maintenance by a qualified technician is crucial for the safe, efficient, and reliable operation of your oil burner system and its components, including the control box.

- **Annual Inspection:** It is highly recommended to have the entire oil burner system, including the control box,

inspected and serviced annually by a qualified heating service technician.

- **Cleaning:** Ensure the control box and its external connections are kept clean and free from dust, dirt, and debris, which can impede proper function and heat dissipation.
- **Component Check:** During service, the technician should check all electrical connections for tightness and integrity. The flame sensor should be inspected for cleanliness and proper function, as a dirty sensor can lead to nuisance lockouts.

## TROUBLESHOOTING

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If your oil burner system fails to operate correctly, consider the following common issues. Always consult a qualified heating technician for accurate diagnosis and repair, as attempting repairs without proper knowledge can be dangerous.

- **Burner Fails to Start:**
  - Check the main power supply to the burner and heating system.
  - Ensure all thermostats are set to call for heat.
  - Check for a tripped safety lockout on the control box; attempt to reset if necessary.
  - Verify that there is an adequate fuel supply to the burner.
- **Burner Starts but Locks Out Shortly After:**
  - This typically indicates a problem with ignition or flame establishment/retention.
  - Potential causes include a faulty or dirty flame sensor (Terminal 7), issues with the ignition transformer or electrodes, or problems with the fuel supply.
  - Requires professional diagnosis and repair.
- **No Ignition Spark:**
  - Inspect the ignition transformer and electrodes for damage or incorrect gap.
  - Ensure proper wiring to terminals 1, 2, and 3 for the ignition circuit.
- **Flame Loss During Operation:**
  - Could be due to a dirty or faulty flame sensor (connected to Terminal 7).
  - Interruption in the fuel supply.
  - Issues with the air supply for combustion.

**Note:** A customer review mentioned the product "Did not do what it was supposed to do." This underscores the critical importance of professional installation and thorough testing upon setup. If the unit does not function as expected, meticulously verify all connections and immediately consult a qualified heating technician.

## SPECIFICATIONS

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Feature	Detail
Manufacturer	Honeywell
Model Number	S01-TF832.3
Product Dimensions	15.3 x 13.4 x 5.1 cm
Item Weight	180 grams
Color	Transparent

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Batteries Required	No
ASIN	B00ICKQC0M

## **WARRANTY AND SUPPORT**

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For detailed warranty information, technical assistance, or to locate an authorized service provider, please contact your authorized Honeywell dealer or visit the official Honeywell website. When making inquiries, please have your purchase receipt and the model number (TF832.3 / S01-TF832.3) readily available.