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> [Honeywell S7800A1001 Burner Control Keyboard Display User Manual](#)

Honeywell S7800A1001

Honeywell S7800A1001 Burner Control Keyboard Display User Manual

Model: S7800A1001

INTRODUCTION

The Honeywell S7800A1001 Burner Control Keyboard Display is designed to provide comprehensive status and diagnostic information for burner control systems. This device serves as a crucial interface, offering real-time data on burner sequence, timing, hold conditions, and lockout events. Its intuitive display and control buttons facilitate efficient troubleshooting and system management.

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of the S7800A1001 display module.

KEY FEATURES

- **Vacuum Fluorescent Display (VFD):** Features a 2-row by 20-column VFD for clear display of first-out annunciation and system diagnostics.
- **Programmable Messages:** Capable of displaying a "Call Service" (Business Card) message when a system lockout occurs, aiding in immediate service notification.
- **Operational and Fault Information:** Provides local or remote annunciation of both operational status and fault conditions.
- **Portable Tool Functionality:** Equipped with a connector, allowing it to be used as a portable diagnostic tool that plugs into various Honeywell Series 7800 Relay Modules.
- **Troubleshooting Aid:** Displays detailed information about lockouts, significantly assisting in the troubleshooting process.
- **Multi-functional Keyboard:** Features a multi-functional keyboard with 4 keys for navigation and input.

PRODUCT OVERVIEW



Figure 1: Honeywell S7800A1001 Burner Control Keyboard Display. This image shows the blue and black unit with the Honeywell logo, "BURNER CONTROL" label, a display screen, and four blue control buttons labeled "EDIT", "BACK", "ENTER", and directional arrows.

The S7800A1001 is a compact, rectangular unit, primarily blue and black in color. It features a prominent display area and a set of control buttons for user interaction. The top section clearly displays the "Honeywell" brand name and "BURNER CONTROL" label. The display is a 2-row by 20-column Vacuum Fluorescent Display (VFD), designed for clear readability of system status and diagnostic messages. Below the display, four blue buttons provide navigation and input capabilities: an "EDIT" button, an "ENTER" button, a "BACK" button, and directional arrow buttons (up/down and left/right) for menu navigation and value adjustment.

SETUP

The S7800A1001 is designed for plug-in connectivity with compatible Honeywell Series 7800 Relay Modules. Ensure the relay module is powered off before connecting the display.

1. **Power Off:** Before connecting or disconnecting the S7800A1001, ensure that the power to the Honeywell Series 7800 Relay Module is completely turned off. This prevents potential damage to the module or the display.
2. **Locate Connector:** Identify the designated connector port on your Honeywell Series 7800 Relay Module. This port is specifically designed for the S7800A1001 display.
3. **Connect Display:** Align the connector on the S7800A1001 with the port on the relay module. Gently push the display into place until it is securely seated. Do not force the connection.
4. **Power On:** Once the display is securely connected, restore power to the Honeywell Series 7800

Relay Module. The S7800A1001 display should power on and begin displaying system information.

Note: The S7800A1001 can be used as a portable tool. For temporary diagnostic use, simply plug it into the desired relay module, perform diagnostics, and then disconnect it. For permanent installation, ensure a secure and stable connection.

OPERATING INSTRUCTIONS

The S7800A1001 provides real-time information and allows for basic interaction with the burner control system. The display shows various messages, including operational status, timing, and fault codes.

Display Information

The 2-row by 20-column VFD provides clear text messages. These messages include:

- **Current Status:** Indicates the current phase of the burner sequence (e.g., Pre-purge, Ignition, Run).
- **Timing Information:** Displays countdowns or elapsed times for various stages.
- **Hold Information:** Shows if the system is in a hold state and the reason for the hold.
- **Lockout Information:** Provides detailed messages regarding system lockouts, including the first-out annunciation, which helps identify the initial cause of a shutdown.
- **Programmable Messages:** Custom messages, such as "Call Service," may appear during specific events like system lockouts.

Button Functions

Button	Function
EDIT	Used to enter or exit edit mode for programmable parameters (if applicable and supported by the connected relay module).
BACK	Navigates back to the previous menu or screen.
ENTER	Confirms a selection or enters a sub-menu.
Up/Down Arrows (↑ ↓)	Scrolls through menu options or adjusts numerical values.
Left/Right Arrows (← →)	Navigates between different data fields or screens.

Refer to the specific documentation of your Honeywell Series 7800 Relay Module for detailed instructions on navigating menus and interpreting specific messages displayed by the S7800A1001.

MAINTENANCE

The Honeywell S7800A1001 Burner Control Keyboard Display requires minimal maintenance. Regular inspection and cleaning are recommended to ensure optimal performance and longevity.

- **Cleaning:**
 - Gently wipe the display screen and the unit's exterior with a soft, dry, lint-free cloth.
 - For stubborn smudges, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or solvents, as these can damage the display or casing.
 - Ensure no liquid enters the unit through button crevices or connection ports.

- **Connection Check:** Periodically inspect the connection between the S7800A1001 and the relay module to ensure it remains secure and free from debris. A loose connection can lead to intermittent display issues.
- **Environmental Conditions:** Ensure the unit is operated within its specified environmental conditions (temperature, humidity) to prevent premature wear or malfunction. Avoid exposing the unit to extreme temperatures, direct sunlight for prolonged periods, or excessive moisture.
- **Storage:** If storing the unit for an extended period, disconnect it from the relay module and store it in a cool, dry place, away from direct sunlight and dust.

***Important:** Do not attempt to open the S7800A1001 unit. There are no user-serviceable parts inside. Opening the unit will void the warranty and may cause damage.*

TROUBLESHOOTING

This section provides guidance for common issues encountered with the Honeywell S7800A1001 Burner Control Keyboard Display. For complex issues or issues not listed here, consult a qualified technician or refer to the specific documentation for your Honeywell Series 7800 Relay Module.

Problem	Possible Cause	Solution
Display is blank or not powering on.	<ul style="list-style-type: none"> ◦ No power to the relay module. ◦ Loose or incorrect connection to the relay module. ◦ Faulty display unit. 	<ul style="list-style-type: none"> ◦ Verify power supply to the Honeywell Series 7800 Relay Module. ◦ Ensure the S7800A1001 is securely and correctly plugged into the relay module. Disconnect and reconnect if necessary (with power off). ◦ If power is confirmed and connection is secure, the display unit may be faulty and require replacement.
Display shows garbled or unreadable characters.	<ul style="list-style-type: none"> ◦ Loose connection. ◦ Electrical interference. ◦ Internal display issue. 	<ul style="list-style-type: none"> ◦ Check and secure the connection to the relay module. ◦ Ensure proper grounding of the system. ◦ If the problem persists, the display unit may be faulty.
Buttons are unresponsive.	<ul style="list-style-type: none"> ◦ Stuck buttons due to debris. ◦ Internal button malfunction. ◦ Software issue with the connected relay module. 	<ul style="list-style-type: none"> ◦ Inspect buttons for any physical obstruction and gently clean around them. ◦ Disconnect and reconnect the display unit. ◦ If the issue persists, consult the relay module's manual or a technician.

Problem	Possible Cause	Solution
"Call Service" message displayed.	<ul style="list-style-type: none"> System lockout detected by the relay module. 	<ul style="list-style-type: none"> This message indicates a system lockout. Refer to the relay module's documentation for specific lockout codes and troubleshooting steps. Contact qualified service personnel as indicated by the message.

SPECIFICATIONS

Attribute	Detail
Model Number	S7800A1001
Manufacturer	Honeywell
Product Dimensions	9 x 7 x 6 inches
Item Weight	1 pound
Color	Blue
Material	Plastic
Power Source	Powered by Honeywell Series 7800 Relay Modules (13 Vdc peak fullwave rectified (+20/-15%))
Display Type	Vacuum Fluorescent Display (VFD)
Display Format	2 rows x 20 characters (40 CHARACTER)
Number of Keys	4 (EDIT, BACK, ENTER, Directional Arrows)
Connectivity	Plug-in
Compatible Devices	Honeywell Series 7800 Relay Modules
Certifications	UL Listed, CSA, FM Approved (J.I.1V9A0.AF.)
Recommended Use	Industrial Flame Safeguard applications

WARRANTY AND SUPPORT

For warranty information and technical support regarding your Honeywell S7800A1001 Burner Control Keyboard Display, please refer to the documentation provided with your Honeywell Series 7800 Relay Module or contact Honeywell customer service directly. Keep your purchase receipt and product model number readily available when seeking support.

Honeywell Customer Service: Please visit the official Honeywell website or refer to the contact information provided in your product packaging for the most current support options.

time without notice.