System Sensor 5604

System Sensor 5604 194°F Fixed Temperature Single Circuit Heat Sensor Instruction Manual

Model: 5604 | Brand: System Sensor

1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the System Sensor 5604 Fixed Temperature Single Circuit Heat Sensor. Please read this manual thoroughly before installation and retain it for future reference. This device is designed to detect heat and activate an alarm in fire protection systems.

2. Safety Information

Important Safety Instructions:

- Installation must comply with all local and national electrical and fire codes.
- Disconnect power before installing or servicing the device.
- This device operates on a corded electric power source; ensure proper wiring connections.
- Do not paint the heat sensor. Painting can interfere with its ability to detect heat effectively.
- Consult a qualified electrician or fire alarm technician for installation and maintenance.
- This heat sensor is not a substitute for smoke detectors. For comprehensive fire protection, both heat and smoke detectors are recommended.

3. Product Overview

The System Sensor 5604 is a fixed-temperature heat sensor designed to activate when the ambient temperature reaches 194°F (90°C). It is a single-circuit device, suitable for integration into compatible fire alarm control panels. The sensor provides an audible alarm upon activation.

Figure 3.1: Top view of the System Sensor 5604 heat sensor, showing the central detection element and the 194°F/90°C temperature rating printed on the rim.

Figure 3.2: Side profile of the System Sensor 5604 heat sensor, illustrating its compact design and the 'DO NOT PAINT' warning.

4. Setup and Installation

Proper installation is crucial for the reliable operation of the heat sensor. Refer to the wiring diagram and mounting instructions below.

4.1 Mounting

1. Select a suitable mounting location in compliance with local fire codes, typically on a ceiling or high on a wall.
2. Use the provided mounting holes on the back of the sensor for surface mounting. The sensor requires No. 6 flat head screws.
3. Securely fasten the sensor to the mounting surface.

4.2 Wiring

The 5604 heat sensor is designed for a single-circuit, corded electric connection. Ensure all wiring is performed by a qualified individual and adheres to applicable electrical codes.

- Connect the power supply wires to the designated terminals on the back of the sensor.
- Ensure all connections are tight and secure to prevent intermittent operation.
- Verify correct polarity if applicable to your fire alarm control panel.

Figure 4.1: Back view of the System Sensor 5604 heat sensor, highlighting the mounting holes for surface installation and the electrical wiring terminals.

5. Operating Instructions

The System Sensor 5604 is a fixed-temperature heat sensor that operates automatically. Once properly installed and powered, it continuously monitors the ambient temperature.

- **Normal Operation:** The sensor remains in a standby state, monitoring the temperature.
- **Alarm Activation:** If the ambient temperature at the sensor location reaches or exceeds 194°F (90°C), the sensor will activate, triggering an audible alarm and signaling the connected fire alarm control panel.
- **Alarm Indication:** The sensor provides an audible alarm to alert occupants.
- **Reset:** Fixed temperature heat sensors typically do not reset after activation. Once the temperature threshold is met and the sensor activates, it must be replaced.

6. Maintenance

Regular maintenance ensures the continued reliability of your heat sensor.

- **Cleaning:** Periodically clean the exterior of the sensor with a soft, dry cloth to remove dust and debris. Do not use cleaning agents or solvents.

- **Inspection:** Visually inspect the sensor regularly for any signs of damage or obstruction.
- **Painting: DO NOT PAINT** the heat sensor. Paint can insulate the thermal element, preventing it from responding accurately to temperature changes.
- **Testing:** Consult local fire codes for recommended testing intervals. Testing of fixed temperature heat sensors typically involves professional inspection rather than user-initiated tests.

7. Troubleshooting

If you encounter issues with your System Sensor 5604 heat sensor, refer to the following:

- **Alarm Sounds:** If the alarm sounds, it indicates that the temperature at the sensor location has reached 194°F (90°C). Follow your established fire safety plan, which typically involves evacuating the premises and contacting the fire department.
- **No Alarm During High Heat:** If you suspect a fire or high heat condition but the sensor does not activate, ensure the device is properly powered and wired. If the issue persists, contact a qualified fire alarm technician for inspection.
- **Power Issues:** This device is corded electric and does not require a battery backup. Ensure continuous power supply from your fire alarm control panel.
- **Physical Damage:** If the sensor is physically damaged, it must be replaced immediately.

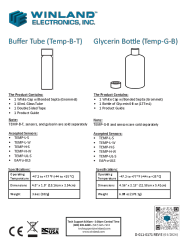
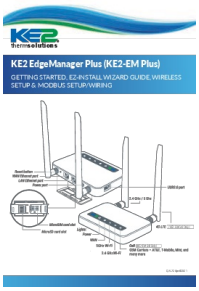
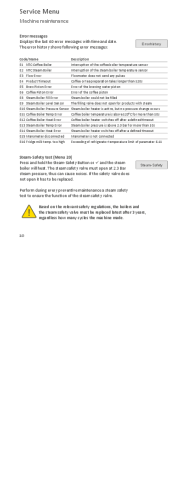
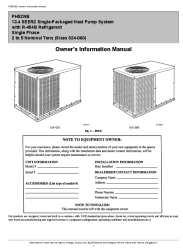
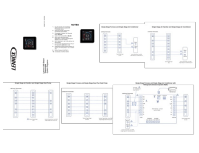
8. Specifications

Feature	Specification
Brand	System Sensor
Model Number	5604
Activation Temperature	194°F (90°C) Fixed Temperature
Circuit Type	Single Circuit
Power Source	Corded Electric
Alarm Type	Audible
Color	WHITE
Item Weight	3.2 ounces
Product Dimensions	4.8 x 4.8 x 1.8 inches
UPC	783863022470
Batteries Required	No

9. Warranty and Support

For warranty information and technical support regarding your System Sensor 5604 heat sensor, please contact System Sensor directly or refer to the documentation provided at the point of purchase. Keep your purchase receipt as proof of purchase.
For further assistance, visit the official System Sensor website or contact their customer service department.

Related Documents - 5604

	Winland Buffer Tube and Glycerin Bottle Product Guide Product guide for Winland Electronics' Buffer Tube (Temp-B-T) and Glycerin Bottle (Temp-G-B), detailing contents, specifications, and installation instructions for temperature buffering applications.
	Hydro-Temp Single & Two Speed Series Customer Manual - Geothermal Heat Pump Guide Comprehensive customer manual for Hydro-Temp Single & Two Speed Series geothermal heat pumps. Covers installation, transportation, storage, electrical safety, preventative maintenance, thermostat selection and wiring, and an optional UV air purifying system. Includes model nomenclature and contact information.
	KE2 EdgeManager Plus (KE2-EM Plus) Quick Start Guide: Setup, Wireless, and Modbus Configuration This guide provides instructions for setting up the KE2 EdgeManager Plus (KE2-EM Plus), including the EZ-Install Wizard, wireless network configuration, and Modbus setup and wiring. It covers initial power-on, network connectivity, device publishing, wireless sensor installation, and technical support information.
	Rex Service Menu: Machine Maintenance and Error Codes Comprehensive guide to Rex coffee machine service, detailing error codes, their descriptions, and the Steam-Safety test procedure. Includes maintenance advice and safety regulations.
	Carrier PH5ZNB 13.4 SEER2 Single-Packaged Heat Pump System Owner's Manual Comprehensive owner's information manual for the Carrier PH5ZNB 13.4 SEER2 single-packaged heat pump system with R-454B refrigerant. Includes safety, operation, maintenance, and troubleshooting guides.
	Lennox L40 Smart Thermostat System Wiring Diagrams This document provides system wiring diagrams for the Lennox L40 Smart Thermostat, illustrating configurations for single-stage air handlers, furnaces, heat pumps, and air conditioners, including options for condensate float switches and Refrigerant Detection Systems (RDS).