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- › [System Sensor RTS151KEY Remote Test and Reset Station with Key for Duct Smoke Detector User Manual](#)

System Sensor RTS151KEY

System Sensor RTS151KEY Remote Test and Reset Station with Key

Model: RTS151KEY

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1. PRODUCT OVERVIEW

The System Sensor RTS151KEY is a remote test and reset station designed for use with compatible duct smoke detectors. This device allows for convenient testing and resetting of the associated smoke detector from a remote location, eliminating the need to access the detector directly within the ductwork. It features a key-operated switch for secure operation.



Figure 1.1: Front view of the System Sensor RTS151KEY Remote Test and Reset Station, showing the keyhole, reset, and test labels.

2. IMPORTANT SAFETY INFORMATION

WARNING:

- Installation and wiring must be performed by qualified personnel in accordance with all local codes and authorities having jurisdiction.
- Disconnect power before servicing or installing this device.
- This device is part of a fire alarm system. Proper functioning is critical for life safety. Do not modify or tamper with the device.
- Ensure all connections are secure and correct as per the wiring diagrams.
- Do not paint this fire alarm device.

3. PACKAGE CONTENTS

Verify that all items are present and undamaged upon opening the package:

- System Sensor RTS151KEY Remote Test and Reset Station
- Keys (typically two)
- Installation and Wiring Instructions (manual)



Figure 3.1: Included keys for operating the RTS151KEY station.



Figure 3.2: Example of the included installation and wiring instructions.

4. INSTALLATION AND WIRING

The RTS151KEY is designed for surface mounting. Ensure the mounting location is easily accessible for testing and resetting, and is within the specified wiring distance from the associated duct smoke detector.

4.1 Mounting

1. Select a suitable mounting location, typically near the duct smoke detector or in a control room.
2. Secure the backplate of the RTS151KEY to the wall or surface using appropriate screws.
3. Ensure the device is mounted securely and level.

4.2 Wiring

Refer to the wiring diagram provided with your specific duct smoke detector and the RTS151KEY manual for precise connections. The RTS151KEY typically connects to the detector's remote test/reset terminals and power terminals.



Figure 4.1: Rear view of the RTS151KEY, showing terminal block connections for wiring.

- Connect the power supply (DC ONLY) to the designated terminals.
- Connect the remote test/reset wires from the duct smoke detector to the corresponding terminals on the RTS151KEY.
- Ensure all wiring connections are tight and properly insulated.
- After wiring, attach the front cover of the RTS151KEY to the mounted backplate.

5. OPERATING INSTRUCTIONS

The RTS151KEY provides remote testing and resetting capabilities for compatible duct smoke detectors.

5.1 Testing the Duct Smoke Detector

1. Insert the key into the keyhole on the RTS151KEY.
2. Turn the key to the **TEST** position. This will activate the test function of the connected duct smoke detector.
3. Observe the alarm indicator on the RTS151KEY (if present) and/or the main fire alarm control panel for confirmation of the alarm.
4. Once the test is complete, return the key to the center (normal) position and remove it.

5.2 Resetting the Duct Smoke Detector

1. After an alarm condition or a test, the duct smoke detector may need to be reset.
2. Insert the key into the keyhole on the RTS151KEY.
3. Turn the key to the **RESET** position. This will initiate a reset sequence for the connected duct smoke detector.
4. Hold the key in the RESET position for a few seconds, then return it to the center (normal) position and remove it.
5. Confirm that the alarm condition has cleared on the main fire alarm control panel.

6. MAINTENANCE

The RTS151KEY is a low-maintenance device. Regular maintenance should focus on ensuring its physical integrity and proper function within the fire alarm system.

- **Visual Inspection:** Periodically inspect the unit for any signs of physical damage, loose connections, or environmental degradation.
- **Functional Testing:** Perform routine functional tests as required by local fire codes and the manufacturer's recommendations for the associated duct smoke detector. This typically involves using the test function of the RTS151KEY.
- **Cleaning:** If necessary, gently wipe the exterior of the unit with a soft, dry cloth. Do not use abrasive cleaners or solvents.

7. TROUBLESHOOTING

If the RTS151KEY or the connected duct smoke detector is not functioning as expected, consider the following common issues:

Problem	Possible Cause	Solution
Duct detector does not test/reset from RTS151KEY.	<ul style="list-style-type: none"> • Incorrect wiring. • No power to the duct detector or RTS151KEY. • Faulty duct detector. • Key not fully turned or held. 	<ul style="list-style-type: none"> • Verify all wiring connections against the manual's diagram. • Check power supply to both devices. • Test the duct detector directly if possible. • Ensure the key is turned firmly to the TEST/RESET position and held briefly.
No indication on RTS151KEY during alarm/test.	<ul style="list-style-type: none"> • LED indicator failure. • Wiring issue to indicator. 	<ul style="list-style-type: none"> • Confirm detector status at the main control panel. • Check wiring to the indicator terminals.

If problems persist, contact a qualified fire alarm technician or System Sensor technical support.

8. PRODUCT SPECIFICATIONS

Feature	Detail
Model Number	RTS151KEY
Dimensions (H x W x D)	4 x 7 x 4 inches (approximate)
Item Weight	3.84 ounces
Power Source	DC ONLY
UPC	783863038075
Manufacturer	System Sensor
Compatibility	Designed for use with compatible System Sensor duct smoke detectors.

9. WARRANTY AND SUPPORT

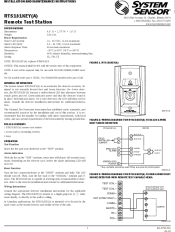
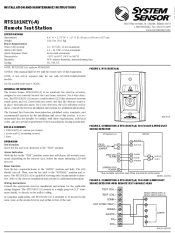
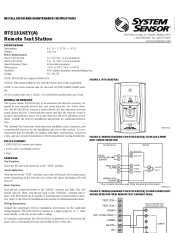
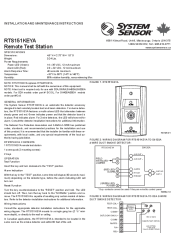

For warranty information, please refer to the documentation provided with your purchase or contact System Sensor directly. System Sensor products are typically covered by a limited warranty against defects in materials and workmanship.

Technical Support

For technical assistance, installation questions, or troubleshooting beyond the scope of this manual, please contact System Sensor customer support. Contact information can usually be found on the manufacturer's official website or in the product packaging.

System Sensor Official Website: www.systemsensor.com

Related Documents - RTS151KEY

	<p>System Sensor RTS151KEY(A) Remote Test Station Installation and Maintenance Instructions</p> <p>Installation and maintenance instructions for the System Sensor RTS151KEY(A) Remote Test Station. This document provides specifications, operation details, wiring diagrams, and warranty information for the product.</p>
	<p>System Sensor RTS151KEY(-A) Remote Test Station Installation and Maintenance Guide</p> <p>Detailed installation and maintenance instructions for the System Sensor RTS151KEY(-A) Remote Test Station, covering specifications, operation, wiring diagrams for various detectors (D4120, DNR, D2, OSID, DH400ACDC, BEAM1224), and warranty information.</p>
	<p>RTS151KEY-A Remote Test Station: Installation and Maintenance Guide</p> <p>Comprehensive installation and maintenance instructions for the System Sensor RTS151KEY-A Remote Test Station, including specifications, operation, wiring diagrams, and warranty information.</p>
	<p>System Sensor RTS151KEY(A) Remote Test Station Installation and Maintenance Instructions</p> <p>Comprehensive guide for installing and maintaining the System Sensor RTS151KEY(A) Remote Test Station, including specifications, operation, wiring diagrams for various detectors, and warranty information.</p>
	<p>RTS151KEYA Remote Test Station Installation and Maintenance Instructions</p> <p>Installation and maintenance guide for the System Sensor RTS151KEYA Remote Test Station, detailing specifications, operation, wiring diagrams, and warranty information for fire detection systems.</p>
	<p>System Sensor RTS151KEY Remote Test Station: Installation & Maintenance Guide</p> <p>Comprehensive installation and maintenance instructions for the System Sensor RTS151KEY Remote Test Station, including specifications, operation details, and wiring diagrams for various duct and beam smoke detectors.</p>

