



Manuals.plus /

› SYSTEM SENSOR /

› System Sensor D4120 5-foot Sampling Tube Instruction Manual

SYSTEM SENSOR D4120

System Sensor D4120 5-foot Sampling Tube Instruction Manual

MODEL: D4120

Brand: SYSTEM SENSOR

Introduction

This instruction manual provides essential information for the proper installation, operation, and maintenance of the System Sensor D4120 5-foot metal sampling tube. This tube is designed as a component for air sampling smoke detection systems, facilitating the transport of air samples to a compatible smoke detector unit. Please read this manual thoroughly before installation and retain it for future reference.

Product Overview

The System Sensor D4120 is a durable metal sampling tube, measuring 5 feet in length. It is specifically engineered to integrate with System Sensor smoke detection systems, ensuring efficient and reliable air sampling for early smoke detection in various environments.



Image 1: System Sensor D4120 5-foot metal sampling tube. This image shows the metallic tube, which is a key component for air sampling in smoke detection systems.

Features

- **Model D4120:** Specifically designed for System Sensor air sampling smoke detection systems.
- **5-foot Length:** Provides adequate reach for various installation requirements.
- **Durable Metal Construction:** Ensures longevity and resistance to environmental factors.
- **Optimized for Air Sampling:** Facilitates efficient transport of air samples to the detector.

Setup and Installation

Proper installation of the D4120 sampling tube is crucial for the effective operation of your smoke detection system. Always refer to the primary smoke detector's installation manual for specific guidelines and safety precautions.

1. **System Compatibility:** Ensure the D4120 tube is compatible with your specific System Sensor smoke detector model.

2. **Planning:** Determine the optimal placement for the sampling tube to ensure effective air intake from the protected area. Consider airflow patterns and potential sources of smoke.
3. **Mounting:** Securely mount the sampling tube using appropriate brackets or clips (not included) to prevent movement or damage. Ensure the tube is free from kinks or obstructions.
4. **Connection:** Connect one end of the D4120 sampling tube to the air intake port of the System Sensor smoke detector. Ensure a tight, airtight seal to prevent air leakage, which could compromise detection accuracy.
5. **Airflow Verification:** After installation, perform a system test as per the smoke detector's manual to verify proper airflow through the sampling tube and into the detector.

Note: Installation should be performed by qualified personnel in accordance with all local and national electrical and fire safety codes.

Operating Principles

The D4120 sampling tube functions as a passive conduit within an active air sampling smoke detection system. It draws ambient air from the protected area and transports it to the connected smoke detector. The detector then analyzes this air for the presence of smoke particles. The tube itself does not have active operational components.

Maintenance

Regular maintenance of the sampling tube ensures the continued reliability of your smoke detection system.

- **Visual Inspection:** Periodically inspect the entire length of the sampling tube for any signs of damage, blockages, kinks, or loose connections.
- **Cleaning:** If dust or debris accumulates on the exterior of the tube, gently wipe it clean with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- **Internal Obstructions:** If the smoke detector indicates an airflow fault, the sampling tube may be obstructed internally. Consult the smoke detector's manual for procedures on clearing obstructions or contact a qualified technician.
- **Replacement:** Replace the sampling tube if it shows signs of significant damage, corrosion, or if internal obstructions cannot be cleared.

Troubleshooting

The D4120 sampling tube is a passive component, so most troubleshooting will relate to its connection or physical integrity within the larger smoke detection system.

Problem	Possible Cause	Solution
Low Airflow Indication from Detector	<ul style="list-style-type: none"> ◦ Kinked or crushed tube ◦ Blocked tube (dust, debris) ◦ Loose connection to detector 	<ul style="list-style-type: none"> ◦ Inspect tube for physical damage and correct. ◦ Attempt to clear obstruction (consult detector manual). ◦ Ensure secure, airtight connection to detector.
No Smoke Detection (System Test Failure)	<ul style="list-style-type: none"> ◦ Tube not positioned correctly to sample smoke ◦ Tube completely blocked 	<ul style="list-style-type: none"> ◦ Review installation guidelines for optimal placement. ◦ Perform airflow check and clear any blockages.

For issues not resolved by these steps, consult the main smoke detector manual or contact System Sensor technical support.

Specifications

Attribute	Detail
Brand	SYSTEM SENSOR
Model Number	D4120
Product Dimensions (L x W x H)	153.16 cm x 2.03 cm x 2.03 cm (approx. 5 feet length)
Item Weight	454 g (approx. 1 lb)
Batteries Included	No
Material	Metal

Warranty and Support

Specific warranty information for the System Sensor D4120 sampling tube is typically provided with the primary smoke detection unit or can be obtained directly from System Sensor. For technical support, installation assistance, or warranty claims, please refer to the contact information provided with your complete System Sensor smoke detection system or visit the official System Sensor website.