



*Kingfisher Company, inc.*

## Photoelectric Smoke Detector Sensitivity Reader

MSFM  
approved



### Features:

- An LCD screen that displays sensitivity by percent-per-foot obscuration
- Connectors for a hand held device or threaded extension pole
- Dual LED and sounder indications
- Operates on 2 AA alkaline batteries
- A low battery indicator
- Automatic shut off after 30 minutes



### Description:

Kingfisher Smoke Detector Sensitivity Reader SENS –RDR is for use with the Kingfisher 2W and 4W series smoke detectors.

The sensitivity reader displays sensitivity and status indication readings.

The sensitivity reader is designed assure smoke detectors are working within their listed and marked sensitivity ranges. The SENS-RDR reader's LCD screen displays a detectors exact sensitivity by percent-per foot obscuration. Therefore, unlike many sensitivity readers, voltmeters, and multimeters that display only the voltage rating, the step of cross referencing a voltage reading to a sensitivity range is eliminated with the SENS RDR. Beyond displaying the sensitivity reading, the LCD screen indicates the status of the detector in alpha numeric text as GOOD, SERVICE, or REPLACE.

Testing a detector's sensitivity is a simple and quick task. The SENS-RDR connects to hand held devices and threaded extension pole for those detectors installed out of reach, eliminating the need for a ladder. Within 10 seconds, the dual LED and sounder will alert the installer that the reading has been taken. With dual indicators, the installer won't have to rely on a single LED in areas with visibility issues or a single sounder in areas with audibility issues.

## LCD Status Indicators:

### Status Indication

GOOD  
SERVICE  
REPLACE

### Action

The detector is within its sensitivity range. No action is necessary at this time.  
The smoke detector's sensing chamber requires cleaning for continued reliable operation. Refer to the smoke detector manual for proper maintenance procedures.  
The smoke detector is failing and should be replaced immediately.

## SENS-RDR Operation:

1. Turn the reader on by pressing and holding the button for approximately 2 seconds until reader sounds. The LCD will display the word "READY". The READY word status indicates that the SENS-RDR is ready to accept data from a compatible detector.
2. Place the reader by the smoke detector being tested. Position the reader above the oval depression near the word 'Paint' (See figure 1). Position the reader below the detector at an angle (See figure 2). A ledge and an anti skip tip is provided on the reader to maintain the reader place while it reads sensitivity.
3. Hold the reader in this position up to 10 seconds until the reader sounds and the reader's LED illuminates. Note: If the reader does not sound after 10 seconds, verify that the reader is positioned correctly and the LCD displays "Ready".
4. The LED and sounder indicate a valid reading is received. The reader will automatically display 2 results. The first is a percent per foot obscuration measurement, which is displayed for approximately 3 seconds, followed by a textual status indication. The reader will continue to display both results for up to 30 minutes or until the reader is reset.
5. To measure the sensitivity of the next detector, reset the reader by momentarily pressing the button. The LCD will again display the word "READY". Repeat steps 2 through 4, as necessary
6. When finished, turn off reader by pressing and holding the button for approximately 2 seconds until reader sounds.

## Specifications:

**Batteries:** 2-AA alkaline batteries (not included)  
**Dimensions:** Length 7 1/8 inches ( 181mm): Width 1 3/8 inches (35mm): Depth 1 1/8 inches (29mm)  
**Weight:** 8 ounces (225 grams)

## ORDERING INFORMATION

KCi #	Model #	Description
84155	KFSENS-RDR	Sensitivity Reader
84155-DTS		Specification Data Sheet

Kingfisher Company, inc., products must be used within their published specifications and must be PROPERLY specified, applied, installed, operated, maintained and operationally tested in accordance with their installation instructions at the time of installation and at least twice a year or more often and in accordance with local, state and federal codes, regulations and laws. Specification, application, installation, operation, maintenance and testing must be performed by qualified personnel for proper operation in accordance with all of the latest National Fire Protection Association (NFPA), Underwriters' Laboratories (UL), National Electrical Code (NEC), Occupational Safety and Health Administration (OSHA), local, state, county, province, district, federal and other applicable building and fire standards, guidelines, regulations, laws and codes including, but not limited to, all appendices and amendments and the requirements of the local authority having jurisdiction (AHJ).

NOTE: Due to continuous development of our products, specifications and offerings are subject to change without notice in accordance with Kingfisher Company, inc., standard terms and conditions.

**Kingfisher Company, inc.** 81 Old Ferry Road - Lowell, MA 01854  
Phone: 978-596-0214 Fax: 978-596-0217 [www.kfci.com](http://www.kfci.com)