

# R135 Fluid Detector Sensor

The “wire-free” R135 Fluid Detector Sensor features a revolutionary thin-film leak sensor that can easily be applied to floors, walls, or even wrapped around pipes or other objects.

## Features & Benefits

- ◆ Encoded Radio Transmissions at 433 MHz
- ◆ Leak Sensor Film Can Be Easily Applied to Floors, Walls or Pipes
- ◆ Instant Dry or Clear Notification
- ◆ Wire-free Sensor Provides Wireless Leak Detection Notification
- ◆ Integrates with RF Code’s CenterScape and Asset Manager software solutions
- ◆ Easy-to-Deploy, “Wire-free” Monitoring
- ◆ Low Power Consumption for Long Battery Life

The R135 Fluid Detector Sensor is a real-time liquid detection sensor that totally eliminates the need to wire or cable a data center for liquid leak detection capabilities. Combining thin-film technology with RF Code’s real-time, wire-free environmental monitoring technology, the sensor provides the freedom and ease to deploy liquid detection wherever vulnerabilities to conductive liquids threaten expensive IT assets.

The unique qualities of this thin-film sensor make it easy to deploy this sensor in a variety of previously difficult to monitor areas such as:

- Floor- or ceiling-mounted pipes
- Vulnerable floor areas including areas under or above a raised floor
- Water delivery systems and chillers, including those found under raised floors in older data centers
- Air conditioning units and walls

Unlike traditional leak detection sensors that need “air time” to dry off between water incidents, the RF Code film-based sensor can be immediately wiped down and ready for action instantly. As a result, there is no leak detection downtime—the period between incidents that typical leak sensors require to dry off fully before recouping their ability to sense for water presence. In addition, the amount of liquid presence needed to initiate a leak alert is minimal, thereby reducing response time to an emerging threat.

The R135 Leak Sensor Film attaches to an RF Code active RFID sensor via a three-meter cord, allowing maximum placement flexibility. Like all RF Code wire-free sensors, information captured by the sensor is instantly broadcast, providing real-time monitoring and alerting about environmental conditions at a site.

*The R135 Fluid Detector Sensor’s unique thin-film leak detection technology, combined with RF Code’s wire-free sensor solutions, makes monitoring for fluid leaks simple and affordable.*



# RF Code R135 Fluid Detector Sensor Specifications

## OPERATION

Operating Frequency	433.92 MHz
Group Code & Sensor ID Codes	> 540,000 unique IDs per Group Code
Typical Transmission Range	> 30 ft in the data center
Radiated Emissions	71.8 dBuV/m at 3 meters (maximum)
Modulation	ASK
Stability	Saw stabilized
Minimum Switching Time (Open)	200ms minimum
Minimum Switching Time (Closed)	200ms minimum
Maximum Switching Rate	20 cycles per minute
Minimum Reporting Time	3 seconds per cycle
Resistance (Open)	>50M ohm
Resistance (Closed)	<1M ohm

## ENCLOSURE

Case Length	1.70 in (43.18 mm)
Case Width	2.88 in (73.15 mm)
Case Height	0.50 in (12.7 mm)
Case Weight (with sensor)	0.66 oz (18.71 g)
Wire Length	12 in (304.79 mm)
Construction	Injection-molded polycarbonate enclosure
Durability	Tough, impact resistant and temperature stable
Mounting Options	Industrial-strength adhesive or screw-mountable snap-in bezel

## ENVIRONMENTAL

Operating Temperature	-20° C to +70° C
Storage Temperature	-40° C to +80° C
Sealing	Splash resistant

## POWER

Battery Type	Lithium CR2032 replaceable coin cell
Smart Sensor Feature	Low battery indication
Battery Life	> 5 years (typical)



9229 Waterford Centre Blvd. ♦ Suite 500  
Austin, TX 78758

Tel: 512.439.2200 ♦ Fax: 512.439.2199  
sales@rfcode.com ♦  
<http://www.rfcode.com>

Copyright © 2017 RF Code, Inc. All Rights Reserved. RF Code and the RF Code logo are either registered trademarks or trademarks of RF Code Incorporated in the United States and/or other countries. All other trademarks are the property of their respective owners.

07/17/2017