

R135 Fluid Detector Tag

The “wire-free” R135 Fluid Detector Tag 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 Tag Provides Wireless Leak Detection Notification
- ◆ Integrates with RF Code’s Sensor Manager and Asset Manager software solutions
- ◆ Easy-to-Deploy, “Wire-free” Monitoring
- ◆ Low Power Consumption for Long Battery Life

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

The R135 Fluid Detector Tag’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 Tag Specifications

OPERATION

Operating Frequency	433.92 MHz
Group Code & Tag 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 tag)	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 Tag Feature	Low battery indication
Battery Life	> 5 years (typical)



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