

# Wire-Free Environmental & Power Monitoring from RF Code

## Solution At-A-Glance

- Easy “Peel and Stick” deployment: No wires or cabling
- Plug and play PDU power usage monitoring: No Ethernet connection
- Flexible configuration: Affordable, complete coverage
- Real-time alerting & monitoring: 24x7 uptime readiness
- Wide range of sensors: Complete protection for temperature, humidity, fluid detection, air pressure, rack level power usage and more
- Same infrastructure as Asset Management solution: Leveraging your investment



## Overview

Increasing power and cooling demands affect data centers from both a budgetary and availability/uptime perspective. Therefore, knowing the environmental and power utilization factors that affect asset life, data center uptime and power and cooling budgets is critical. It's why data centers now view monitoring instrumentation as a best practice. Monitoring provides the critical information data centers need to make more strategically sound decisions about power, cooling and asset life. Deploying monitoring, data centers can optimize their facility for energy efficiency, cooling and asset use.

## RF Code: Real-Time Wire-Free Environmental & Power Monitoring

RF Code's affordable wire-free environmental and power monitoring solution helps IT professionals maintain optimal environmental conditions and efficient rack-level power use while eliminating the deployment and maintenance costs associated with wired solutions. Our solution consists of:

- Easily deployed, wire-free active hardware (tags and sensors and readers)
- Software that manages the environmental & power usage monitoring information
- Open APIs that make it easy to integrate our solution into your existing technology platforms
- Adherence to industry standards including BACnet, OPC, Modbus, BIRT, JMX and Tivoli Monitoring and more

## How the Solution Works

A “peel and stick” approach to environmental sensor deployment means you can quickly and easily begin monitoring your data center 24x7. Sensors detect and alert about changes in temperature, humidity, the presence of liquids and leaks, the opening/closing of doors, changes in air pressure and more.

Our wire-free PDU power monitoring sensor tag gives you rack-level power utilization information that helps you to better manage and control your power costs. The sensor simply plugs into any of a number of market leading PDUs. No high installation and maintenance costs because there's no need to install an Ethernet connection to each rack and then manage that connection year after year.

## Solution Components

**Wire-Free Sensors.** We offer a full range of affordable environmental monitoring sensors that capture environmental status and then transmit that data via readers to management software. Sensors are easy to deploy and have a long battery life. All have field replaceable batteries and low battery warning indicators.

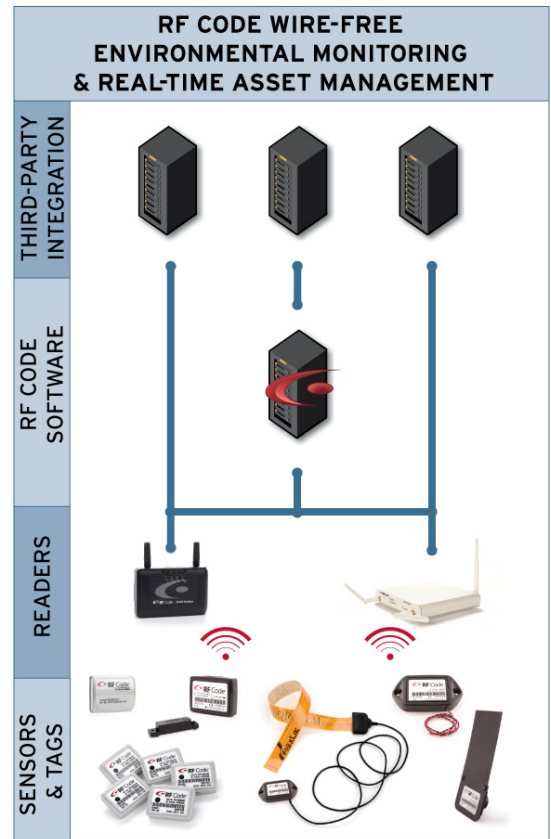
- R150 Rack Temperature Tag that monitors temperature-sensitive items, such as assets in IT racks
- R155 Humidity/Temperature Tag that provide the ambient temperature and relative humidity in the environment
- R120 Door Switch Tag provides wire-free door position information (door open/closed) for racks and room doors
- R130 Dry Contact Sensors that monitor and report the open and closed states of a dry contact device such as a chiller
- R135 Fluid Sensor that provides instant leak detection notification, with an instant dry or clear notification
- R160 Air Pressure Sensor that provides differential air pressure reading between 2 points



**M250 Fixed Reader.** Our M250 Fixed Reader lives on the IP network, capturing data sent by RF Code sensors and tags and transmitting that data to software that consumes the information.

**Sensor Manager Software.** Our software manages the environmental and power monitoring data captured by RF Code tags and sensors.

- Provides policy-based thresholding and alerting for proactive notification.
- Allows for management of wire-free infrastructure
- Based on extensible, expandable, scalable and secure architecture.
- Can be used alone or integrated into a third party platform.



## ITM Communications

### About ITM Communications Limited

By adopting a flexible approach to client requirements, ITM applies best of breed technology, in-house expertise and innovation, to deliver compliant solutions and services that offer value for money and achieve industry best practice.

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