

Environmental Monitoring System

Introduction

Reliable and seamless environmental monitoring is essential for comprehensive safety, quality and production assurance and compliance especially in the fast moving consumer goods (FMCG) industry.

Synertech's Environmental monitoring uses state of the art sensors provide full visibility of controlled areas and assets. With pre-set trigger levels, real-time alerts are triggered by environmental exposure conditions, enabling users to immediately identify and address any issues within business operations. This system also employs rugged semi-passive RFID temperature logger UHF tags to monitor temperature sensitive products during transportation making it an effective way to track and trace these products during the delivery process.

Real-time and historical data provides peace of mind to customers that goods are being stored and transported correctly with live monitoring and an accurate audit trail. Information can be viewed via dashboards with dedicated reports and alert functionality.

Monitoring of products environmental exposure provides an unbroken record to ensure the freshness, quality, and compliancy of all types of goods that require exposure monitoring.



Real-time quality assurance

Key Features

- A full featured web-based environmental monitoring system.
- Realtime data at your fingertips.
- Improved quality standards compliancy.
- Radio Frequency Identification (RFID) enabled UHF.
- Multitude of sensors.

Components

A combination of different RFID tags are utilised to ensure that optimal readability is achieved depending on the asset that requires tracking and to be able to withstand the elements.

EnviroTags are used for the recording of temperatures at pre-set intervals. The recorded temperatures are downloaded or extracted by means of mobile or fixed interrogators or fixed RFID readers.

TempProbe are designed to monitor the temperatures in specified locations or areas according to prescribed environmental operating conditions. The probes are supplied with electronic control units which communicate data to management systems.

Humidity Probes are designed to monitor and record humidity levels in prescribed areas or locations.

Used with fixed or hand-held RFID readers that collect data programmed into the RFID tag and 2d barcodes, the information is then be passed on to the main management system for reporting.

Summary

Designed, developed and implemented by Synertech, a proudly South African company with nearly two decades of success at the forefront of supplying innovative RFID technological solutions to clients across a broad range of industry sectors, Smartshelf solutions offer unprecedented control, flexibility and business benefit in the management of high-value assets and specialised inventory.

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