

IoT Environmental Monitoring Business Sector: Healthcare



Pharmaceutical Compliance & Temperature Monitoring

“Invisible Systems Temperature Monitoring system help us with maintaining temperature in our 8 sites across UK”

Patrick Gray, Manager of Quality Department & Responsible Person

O&M Movianto is part of US-based O&M Inc., headquartered in Richmond, Virginia. With a diverse product and service offering, O&M Inc. serves hospitals, integrated healthcare systems, group purchasing organisations, healthcare supplies and the federal government.

O&M Movianto is dedicated to being the preferred European healthcare solutions partner with best-in-class quality for the pharmaceutical, biotech, medical device and diagnostic industries.

invisible systems This Case Study is based on Solutions provided by Invisible Systems Ltd.
DELIVERING INFORMATION

Project Objectives

Business sector: Healthcare

Customer needs:

- ✓ Understand Environmental Conditions
- ✓ Monitor air quality in real-time
- ✓ Maintain MHRA Compliance
- ✓ Install a system with no impact to operation or IT infrastructure

Project Outcomes

Business sector: Healthcare

Customer benefits:

- ✓ Environment Visualised in real-time
- ✓ Air Conditioning system optimised
- ✓ Full audit trail & Traceability
- ✓ Alerts & Notification's

O&M Movianto's strategically located and wholly owned business operations cover more than 200,000 m² of warehouse storage capacity throughout Europe. Healthcare products are ensured they are kept at optimal condition and in accordance with GMP/GDP regulations.

The warehouses have facilities for temperature-controlled ambient and cold storage, controlled drugs and frozen storage. Movianto UK has an area for licensed rework according to GMP requirements. WAREHOUSING ENVIRONMENT IS CONTROLLED AND VALIDATED.

- ambient storage at 15 – 25°C
- cool storage at 2 to 8°C
- frozen storage at -20°C
- deep frozen storage at -40°C
- compliance with national and European legislations

Environmental Monitoring

Environmental monitoring, using wireless RF sensors, are installed through-out the Warehouse, Freezers, Cold stores and Fridges. The system comprises of Temperature and Humidity sensors which report conditions in real-time to cloud based reporting suit, Realtime-Online.

Temperature monitoring guidelines indicate that controlled drugs and vaccine stock meet temperatures that offer the best shelf life and efficiency. Realtime-Online™ will help to comply with MHRA regulations and can create reports based on conditions breached and display the alarms that have gone off.

Realtime-Online™ gives you full traceability and audit trail of your site in logging corrective actions, Temperature exceptions, users and system changes



Following on from the successful condition monitoring installation at 8 of their sites are expanding the system to their two sites in Northern Ireland



Benefits

- Improved air quality control
 - Optimised HVAC systems
 - Visualisation of environmental conditions in real-time
 - Worldwide data access via cloud
 - Room and Incubator Temperature Sensors
 - Temperature ranges as low as -200°C and as high as +300°C
 - Easy installation
 - High Accuracy probes with a faster response time
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- Contract Start Date : 03/2016
 - End Date : Ongoing

Invisible Systems is a software & electronics design manufacturing company that focuses on Energy Saving, Compliance and Asset management via robust RF wireless Monitoring and Energy solutions with our Realtime-Online software management portal.

Our solutions include Energy metering, Critical Asset management, Boiler Control, Water Hygiene & Food temperature compliance, plus general condition monitoring and control.