

## Letterkenny General Hospital

Major hospital recommends  
Kelsius wireless solution



### User Challenge

- Improve quality control of medicines by maintaining required storage range
- Reduce product wastage
- Replace manual logging procedures and paper-based records
- Monitor pharmacy fridges across all wards



*“We have increased our confidence in product quality and patient safety. Moreover, the system has already paid for itself several times over by helping us avoid significant product loss. We recovered our costs within a year saving in excess of €40,000.”*

**Tom Ferrie,**  
Chief Pharmacist, Letterkenny General Hospital

### Wireless, automated solution for hospital pharmacies

The Kelsius solution is a fully automated, paperless system used to monitor the temperature of controlled storage environments such as pharmacy and ward fridges. Small wireless sensors are placed within fridges to continuously monitor and record air and product temperatures. The data is sent to the Kelsius website where it is presented as user-friendly and flexible reports. These can be easily and securely accessed anytime, anywhere, via any Internet-enabled PC or laptop. Reports can also be faxed or emailed as required.

If a measured temperature deviates outside set limits an alert is triggered which can be transmitted as a text message, email or via local visual and audible alarms.

All historical temperature data and corrective actions are archived providing the user with a complete audit trail.

Kelsius also provide portable temperature loggers which can be used for monitoring temperature-sensitive products during transit, thereby providing full traceability of the distribution chain. These loggers can also be used with reporting software for in-house temperature mapping of areas such as walk-in cold rooms.

### Benefits

- Improves quality control of medicines
- Reduces risk of product loss
- Saves time and reduces risk of human error
- Access to real-time data 24/7
- Complete traceability of storage conditions
- Wireless solution offers range to cover ward fridges
- Solution for monitoring in-transit
- Solution for in-house temperature mapping
- Traceability provides protection against litigation



*“...the only way pharmacists can be satisfied that medicines have been stored within the correct range is through continuous monitoring.”*

**Karl Simmons,  
Product Specialist, Kelsius**

## System keeps pharmacy on alert Letterkenny General Hospital

Letterkenny General Hospital is a 300-bed acute hospital serving the inhabitants of County Donegal in the Republic of Ireland. The facility offers a comprehensive range of services to a population of approximately 140,000 people.

The challenge for Chief Pharmacist, Tom Ferrie, was to replace their manual method of recording temperatures with a more reliable and efficient system that would ultimately improve the quality control of medicines stored throughout the hospital. Tom said, “We had been looking for a system that would continuously monitor the temperature of drug fridges spread throughout the hospital and one that would alert designated personnel if a temperature should deviate from set limits. After researching various products on the market we opted for Kelsius as we felt their system was the furthest along in development and offered the broadest applicability.”

The hospital now enjoys the reliability that Kelsius offers by monitoring temperatures across 39 ward fridges. If a temperature goes out of range the hospital switchboard receives an automatic notification, and in turn notifies the relevant ward or department. The following morning, the Pharmacy receives a full report of the alert by email. The system is also used in the hospital canteen where it ensures full compliance with statutory food safety requirements.

Tom Ferrie feels that Kelsius has raised the bar in terms of compliance with industry best-practice; he concluded, “We have increased our confidence in product quality and patient safety. Moreover, the system has already paid for itself by helping us avoid significant product loss.”

Kelsius Product Manger, Karl Simmons, who said, “In-line with the Code of Ethics for Pharmacists, medicines should not be supplied if thereis any doubt regarding their integrity andquality. In our opinion, the only way pharmacists can be satisfied that medicines have been stored within the correct range is through continuous monitoring/alariming.

This is impossible to achieve using traditional minimum/maximum thermometers or stand alone data loggers. In addition, drug fridges are often found across various locations within a hospital so the scalability of our wireless system makes it an ideal and cost-effective solution. We are delighted that Letterkenny General Hospital have deployed our solution throughout their facility and believe it will continue to protect patient safety which is the ultimate goal for all healthcare professionals”. 

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