



Wireless Temperature Monitoring in Oncology Center

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Operational Challenges an Oncology Center Faces



- Complexity of cancer care treatments & cost of cancer care drugs
- Special storage requirements and safe handling of drugs
- Specialized staff to administer and monitor treatments
- Quality assurance and compliance regulations
- Investments in advanced technology
- Manage billing and collections
- Patient care & safety

Lower Silesian Oncology Center



- DCO hospital located in Wroclaw, Poland
- Needed to monitor correct temperature conditions of drugs and blood during storage, transport and at time of dispensing
- Deployed 120 Blulog temperature data loggers in different zones across 10 buildings throughout the oncology center & hospital
- Now has complete visibility of current temperature conditions and full history of stored and transported drug and blood products



Integrated NFC & RF Cloud-based Temperature Data Loggers

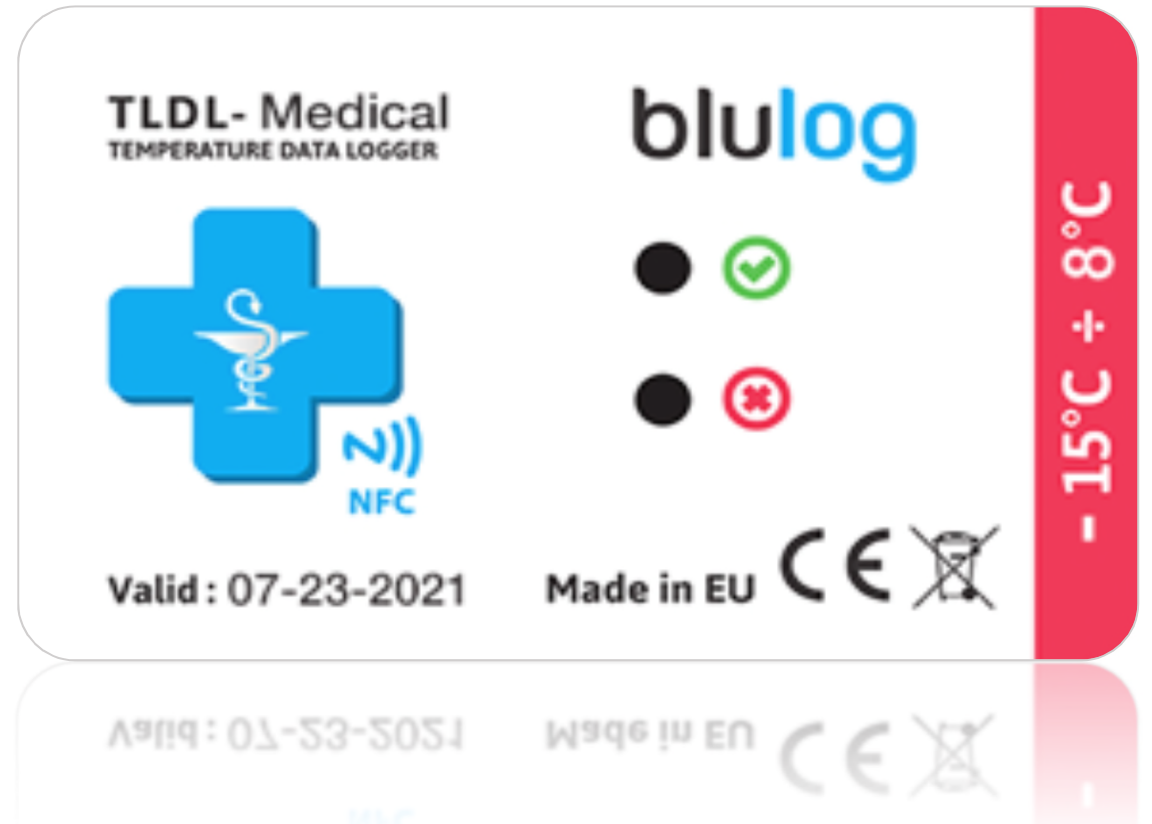


Cloud-based Wireless Temperature Monitoring and Logging



NFC Temperature Data Logger

- Single-use and reusable NFC loggers
- -40°C to 120°C temperature range
- +/- 0.2°C tolerance
- 1 year ISO 17025 calibration life
- 2 year battery life
- IP68 protection
- Android or iPhone App for data retrieval



Cloud-based Wireless Temperature Monitoring and Logging



- Blulog NFC temperature logger provides quality checks for cytotoxic chemotherapy drugs from lab to clinics
- Blulog NFC is integrated in the isothermal container for ease of use and maximum durability
- Employees use WIFI enabled tablets to push the data retrieved from the NFC logger to the cloud server
- Immediate temperature breaches are reported visually on NFC logger and also via email or text message alerts



Cloud-based Wireless Temperature Monitoring and Logging



RF Temperature Data Logger

- 3 year ISO 17025 calibrated RF loggers
- -40°C to 120°C temperature range
- +/- 0.2°C tolerance
- 5+ year battery life
- IP68 protection
- Ethernet radio hub for data retrieval
- Cloud server console for setup and report generation



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Cloud-based Wireless Temperature Monitoring and Logging



- Blulog RF temperature logger provides live monitoring of drug and blood storage using UHF RF radio logger transmitters
- Temperature excursions are reported using live notification via email or text message alerts



Cloud-based Wireless Temperature Monitoring and Logging



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Temperature report

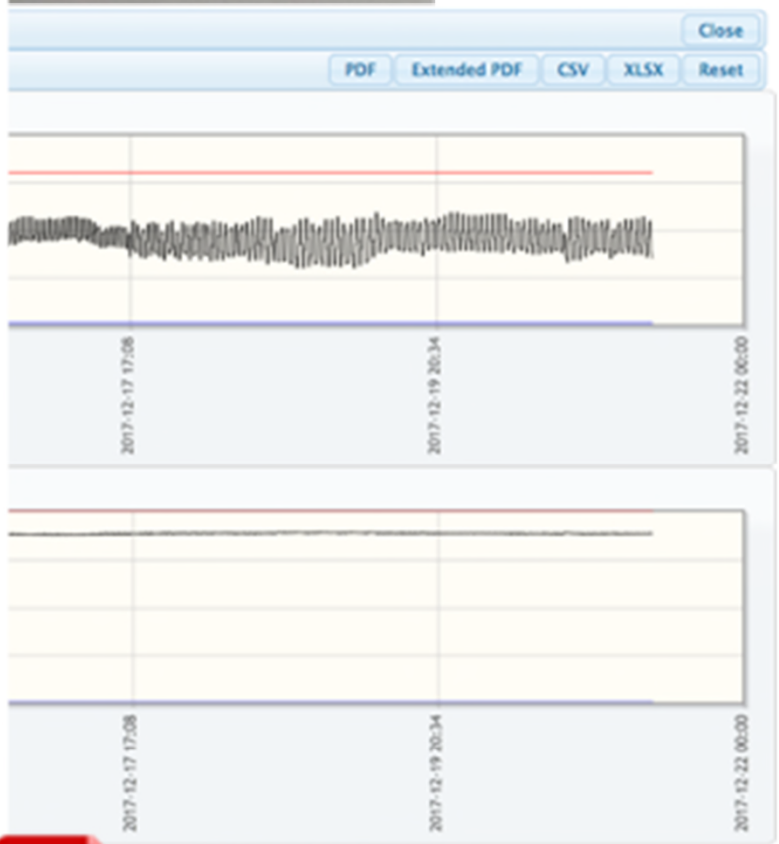
Summary

| | | | |
|------------------------------|------------------|---|-----------------------|
| Model | WTB2-BY | ID | 20061A77 |
| Description | PETS Exuder Top | Reading number | |
| Organization | Parlux Foods | Zone | Parlux Lab - Perry OH |
| Data points | 3067 | Measurement interval | 15min-6s |
| Start time | 07-12-2017 00:00 | End time | 22-12-2017 00:00 |
| Total duration | 15d 0h 0min 0s | Mean Kinetic Temperature recorded (MKT) | 41.8°F |
| Minimum temperature recorded | 38°F | Maximum temperature recorded | 44.8°F |
| Average temperature recorded | 41.8°F | Number of temperature breaches | 0 |
| Total duration breaches | 0s | Longest duration breach | 0s |

4 main temperature breaches

| Time Breached | Start time | End time | Duration | Average temperature / MKT | Max / min temperature |
|---------------|------------|----------|----------|---------------------------|-----------------------|
|---------------|------------|----------|----------|---------------------------|-----------------------|

Graph



Cloud-based Wireless Temperature Monitoring and Logging



DCO hospital chooses Blulog temperature monitoring solution

<https://youtu.be/e2MLW205tFw>

Cloud-based Wireless Temperature Monitoring and Logging



Thank you for your attention.

Questions?

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