



CoolBlue[®] AI

Revolutionary Temperature Visibility

CoolBlue[®] AI offers built-in temperature excursion monitoring as a companion to Med-ic smart blisters, syringe packs and eCAP bottles. CoolBlue[®] AI is a built-in component of IMC's smart packaging and therefore offers attractive price-performance.

“ There is no longer a need for a separate temperature logger. ”

CoolBlue[®] AI Eliminates the Need for Separate Expensive Temperature Loggers

Instead of a difficult to interpret continuous temperature curve, CoolBlue[®] AI evaluates storage conditions in real time, calculating and recording temperature excursions, T_{min}/T_{max} , MKT, and time within programmable ranges. CoolBlue AI can also be configured to calculate dynamic best-before (or use-by) dates from real time temperature exposure data.

CoolBlue[®] AI-enabled smart packages are scanned with NFC-capable devices (eg. iPhone), and in the event of a relevant temperature excursion (eg. > 10 min exposure to > 8°C) the companion app displays a warning to the user that a significant excursion has occurred.

Package Integrity Is Preserved During the Cold Chain with Real Time Monitoring

CoolBlue[®] AI forms part of the original medication package and does not have to be removed to capture its data. This saves time and provides 100% visibility throughout the product life cycle.

At any time during shipment or use, CoolBlue[®] AI data can be displayed via wireless NFC app on the customer's mobile device to ensure that proper temperature was maintained during the entire cold chain. The CoolBlue[®] AI app doesn't require complicated or lengthy and error prone interpretation of temperature curves. All temperature data are intelligently evaluated in real time and displayed as an easy to read summary. Optional dynamic use-by dating can be configured, as well as product-specific temperature excursion criteria.

Hundreds of Thousands of Readings and Many Years of Battery Life

CoolBlue[®] AI is revolutionary and smart. It interprets hundreds of thousands of readings over a period of years, in real time, literally throughout the life cycle of the medication from manufacture to end use. This eliminates guess work and allows use of medication based on its temperature history rather than single brief exposure to out-of-bounds temperatures.



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Easy to Read Graphs

Curves are replaced by temperature bar graphs based on pre-programmed product-specific allowable temperature ranges. Each histogram bin (eg. 2-8°C) shows the number of minutes the product has been exposed to that temperature range.

Up to 40 Temperature Violations Time Stamped in Real Time

Temperature excursions below and above programmable safety ranges are time stamped, indicating the duration of each excursion. Up to 40 excursions can be recorded and displayed. CoolBlue® AI can even be programmed to ignore short excursions that would have no impact on product integrity (eg. ignoring a 5min excursion > 25°C, or a 2min excursion < 0°C).

Advantages of CoolBlue® AI

- ✓ Low cost wireless programmable temperature tracking
 - ✓ Records each unit dose removed
 - ✓ Package GEO location
 - ✓ Dynamic package level expiry dates
 - ✓ Unique ID using NFC mobile app to display data
- Onboard analysis of time/temperature and MKT
 - ✓ Over 100,000 readings
 - ✓ 40 excursions
 - ✓ Up to 3 years life without changing or charging the battery
 - ✓ Stops when product has been fully used
 - ✓ Can be sent via air courier without special paperwork (*FAA compliant*)
 - Validated accuracy better than $\pm 1.0^{\circ}\text{C}$
 - Licensed for use with single use or reusable smart package designs
 - Also works with secure protocol using IMC's CertiScan® wireless reader
 - Data can be shared via IMC's secure CertiScan Cloud or other specified cloud systems
 - Third party integration via easy to use API
 - NFC Forum Certified
 - Eliminates e-waste from external logger devices

