Critical-Environment Monitoring

Meeting CDC Recommendations

Guidance for appropriate vaccine storage and handling practices is regulated by The Centers for Disease Control and Prevention. Following are a few guidelines contained in the CDC recommendations, along with how Winland meets or exceeds those recommendations.

CDC: 24-hour Temperature monitoring
WINLAND: Real time monitoring, 24 hours a day, 365 days a year.

CDC: Readings should be made at least twice a day and minimum and maximum temperatures 1 time each morning. User programmable logging interval (or reading rate).
WINLAND: Data collection frequency from 30 seconds to 120 minutes with ability to generate reports in 5 to 120 minute intervals. Sensors communicate every 30 seconds and upon alarm condition.

CDC: Able to read & store or report reading without opening the refrigerator or freezer door.
WINLAND: LCD display allows for current sensor reading at device. Online account access to view current and historical data as well.

CDC: Data should be kept for a minimum of 3 years
WINLAND: 3 year data retention via online account with option to purchase additional data for permanent backup.

CDC: Data logger should have the following:

Alarm for out-of-range temperatures
WINLAND: Local audible and visual alarms from device in addition to online visual alarm indicators.

Current, minimum, and maximum temperatures
WINLAND: Current temperature readings are captured and can be seen locally on the device or via online account. Average, minimum and maximum temperatures are shown on system generated reports.

Low battery indicator
WINLAND: Wireless sensors are fully supervised for both communication drop-out and low-battery condition.

Accuracy of +/- 1°F (0.5°C)
WINLAND: +/-1 degree for the temp sensors.

User programmable logging interval (or reading rate)
WINLAND: Device collection frequency programmable from 30 seconds to 120 minutes with reports generated with 5 to 120 minute intervals.

Memory storage of at least 4000 readings
WINLAND: 10,000 data point storage on device maintained in non-volatile flash memory for recovery in event of power loss.

CDC: Reset button
WINLAND: Reboot command from the device menu. The device can also be power cycled to reset.

CDC: Using probes encased in a thermal buffer such as glycol because they provide a more accurate reading of actual vaccine temperature.
WINLAND: Stainless steel temperature probe with Glycerin Bottle kit provides buffer to monitor temperature readings for stored product of similar mass.

http://www.cdc.gov/vaccines/recs/storage/toolkit/storage-handling-toolkit.pdf