



Company name: Africonnect Ltd
Business sector: World Health
NHDS product: Messenger M62
Application: Temperature Monitoring of Freezers Containing Malaria Vaccines

“As research into a suitable vaccine to fight Malaria continues in Ghana, Africa, we had a requirement to provide a freezer monitoring system to ensure vaccines are not destroyed by temperature fluctuations. We approached NHDS who have provided a bespoke solution that informs research centre staff immediately, via sms text messages to their existing GSM phones if the freezers deviate by +/-5°C from their normal operating temperature of -80°C. With staff located 30 minutes from the centre it is critical that the alarm information is both accurate and in real time.” Dick Elleray, Africonnect Ltd.

APPLICATION

To monitor temperatures of medical freezers containing malaria vaccines and a refrigerator containing blood samples. If the freezer temperature, usually set at between -75°C and -80°C rises by more than 5°C it is recorded by the Messenger M62 and an alarm is sent as an SMS text message to the research staff's existing mobile phones. The information received is date and time stamped and also which freezer has an alarmed state. The refrigerator had no temperature probes present therefore a "fridge top" box was designed and built to continually record both the temperature in the fridge and freezer compartments. The unit has a user interface to allow configuration of alarm thresholds, when an alarmed condition is present this is recorded by the Messenger M62 and forwarded to staff mobiles as with the freezers. The Messenger unit also reports mains power failure and restoration.

OPERATIONAL BENEFITS

- ✓ Reduced risk to patients of in-effective vaccination
- ✓ Remote staff immediately informed of temperature alarms and power failure
- ✓ Existing mobile phones are utilized
- ✓ Only one Messenger M62 unit required for up to eight freezers



For further information

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