Case Study: AmegaView

Client

Providence Portland Medical Center (4805 NE Glisan Street 2N123 Portland, Oregon 97213)

Courtesy of Tarsem Moudgil, Research Scientists

Background

Providence Portland Medical Center is a member of Providence Health & Services of Oregon, a not-for-profit network of hospitals, health plans, physicians, clinics, home health services, and affiliated health services. Together they are dedicated to maintaining excellence and integrity in their operations as well as professional and business conduct.

The medical center has 174 various storage freezers, liquid nitrogen tanks, and incubators in which patient-specific cells are grown. They also store different types of media, reagents (antibodies), drugs, and live cancer cells and tissue for re-transplants. Providence also has different areas on site such as animal rooms, clean rooms and research laboratories which require ambient temperature and humidity tracking.

The Challenge

Providence experienced a loss of product on two separate occasions. A Liquid Nitrogen Freezer failed outside of normal work hours and staff were unable to determine whether the failure was due to the LN2 not being able to dispense or if the manufacturer alarm did not function as it should have.

The second product loss occurred when a freezer door was left open, which led to the compressor going out. Many drug companies also require Providence to store their drugs in a certain manner, such as in a specific temperature range.

The Solutions

Providence decided to implement Mesa's AmegaView Monitoring System after testing its functionality for two years. The AmegaView Monitoring System protects their assets by notifying staff whenever a probe falls out of its expected temperature range. They have numerous notifications set up for different groups in the hospital, which are programmed to go out 24 hours a day, 7 days a week. The temperature reports are helpful when reporting proper storage temperature of drugs and research materials, and the data can be easily exported. Having a continuous monitoring system helps them save a large amount of time by eliminating the need to record temperatures manually. The Mesa AmegaView Monitoring System allows Providence to program a specific temperature range for each unit (refrigerator, freezer, incubator, liquid nitrogen tank, etc.). In addition, the sensors and probes can be installed in just about any appliance imaginable.

The Mesa AmegaView Monitoring System allows 24/7 notifications of all equipment, which significantly reduces the chance of events like the two mentioned above from ever happening again.

Testimonial

"Knowing Mesa Labs comes out once a year to do the calibrations and check the system gives me peace of mind." — Tarsem Moudgil, Research Scientist

Source Info

http://oregon.providence.org/about-us/

Liquid Nitrogen Tank – has a 418MHz wireless temperature transmitter and RTD Cryo Probe installed to monitor temperature inside the tank