Introducing

CORIS®

EXTREME TEMPERATURE SENSOR

REDUCING THE RISK OF RESEARCH AND MATERIAL LOSSES

Web-Based Temperature Monitoring, Logging and Reporting

Cryogenic freezers frequently store extremely valuable and highly perishable biologic samples—truly irreplaceable assets that often can represent a researcher's career's work. Whether tissue, virus, or microbe—for research or production—proper cryogenic conditions are mandatory and response times are critical if equipment becomes defective or non-operational. The CORIS Extreme Temperature Sensor Module (ETS) continuously monitors the temperature inside cryogenic freezers, centrally logs the temperature data on CORIS' servers, and automatically distributes emails, text messages and/or phone calls to alert appropriate personnel if the temperature goes outside of acceptable limits. You determine the number of people contacted per alert and the number of alerts that you wish to set up. The CORIS web portal provides current temperatures from the ETS sensors, as well as the ability to graph the temperature history over any timeframe, starting from when the sensor was installed.

HOW IT WORKS

Once the thermocouple is installed in the freezer, the wireless chip in the ETS will automatically connect to the CORIS Gateway—either directly or via the mesh network automatically established by other CORIS devices in the area.
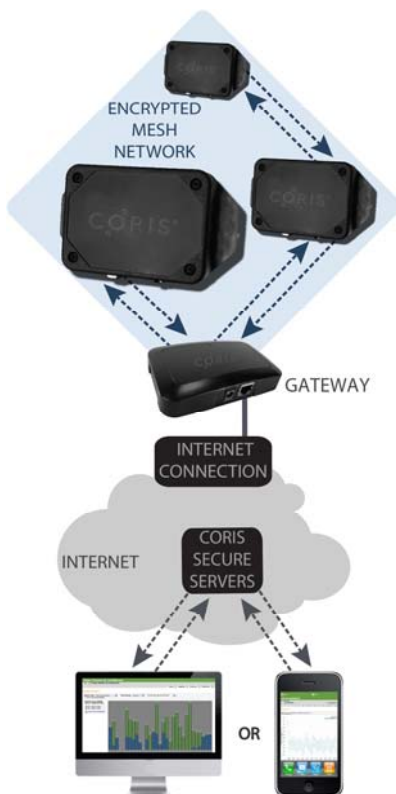
CORIS Gateway Module

Connect the Gateway Module via Ethernet cable to a router, and it automatically connects to CORIS' Servers on the Internet. One Gateway can communicate with as many as 40 CORIS devices.

CORIS Secure Servers

The ETS will send temperature readings from the thermocouple to the CORIS servers every few minutes, and those values will be stored for current access or future retrieval.

Real-Time Monitoring and Alerts

Any Internet-enabled computer or mobile device can be used to view current or historic sensor readings. Alerts are sent out if temperatures go outside normal limits.

ENCRYPTED MESH NETWORK — GATEWAY — INTERNET CONNECTION — INTERNET — CORIS SECURE SERVERS — OR

EASY-TO-INSTALL

- ETS sensor becomes operational immediately upon completion of quick installation
- Uses industry standard thermocouples with T-connectors which plug directly into the ETS Module
- Automatic wireless communication between CORIS devices—no setup required

SIMPLE-TO-USE

- Web access to current and historical temperature readings
- Zoom in to view detailed data within temperature graphs
- Alerts can be sent to multiple people—researchers, lab managers, facilities managers

PEACE-OF-MIND

- Protects against loss of invaluable research or materials that are often worth hundreds of thousands of dollars or more
- Provides historical record of temperatures to identify operational or equipment problems
- Critical Alert Tracking System (CATS) includes alert receipt tracking, escalation and acknowledgment

ENDLESS POSSIBILITIES…HERE ARE A COUPLE

Opportunity | Power and standby power are lost at a lab, affecting multiple freezers and cold storage devices.

Solution | All researchers and facilities personnel associated with the affected freezers are notified so that sensitive and valuable materials can be moved to another storage facility. Replacement costs and insurance claims are dramatically reduced.

Opportunity | A single freezer fails.

Solution | Affected researchers are notified so they can monitor temperatures until the unit is repaired. Frozen samples can be protected or transferred if repairs will not be timely.

CRITICAL ALERT TRACKING SYSTEM (CATS)

With CATS, alerts continue to be sent until an authorized individual accepts responsibility for situation resolution. Other notified personnel can track who is pursuing the resolution.

CATS logging of alerts and acknowledgments assures that problems are not neglected.

Temperatures in cryogenic freezers are continuously monitored, problems are immediately identified, and appropriate personnel are notified—protecting sensitive materials and research.

IDEAL USES

- Medical schools
- Bio-tech research labs
- Anti-viral researchers
- Research hospitals
- Big pharma
- Life science labs
- Veterinary research
- Pathology labs

Patented technology.
All CORIS technology is manufactured in the U.S.A.

MORE FEATURES, MORE PROTECTION

CORIS ETS modules monitor ultra-low or ultra-high temperatures. ETS modules may be accessed from any web browser (PC, tablet, smart phone, etc.). The ETS and its web-based user interface provide:

Temperature sampling and logging every few minutes
24/7 instant warning alerts via email, text message or phone call
Temperature performance tracking for analysis and attention, as needed
Temperature log for verification of proper storage conditions
Operation as low as –250°C with standard thermocouples
Single web page summary with zoom capability
Each ETS can support up to two thermocouples
ETS Module also includes a CORIS Multi-Sensor Module (MSM) port for sensor applications such as water, contact closure, or less extreme temperatures (-55°C to 100°C)

CORIS®

The CORIS Extreme Temperature Sensor Module is an important component in CORIS' Energy Control System of money- and energy-saving products.
To find out more, please visit our website or contact us directly:

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