WORTHINGTON INDUSTRIES

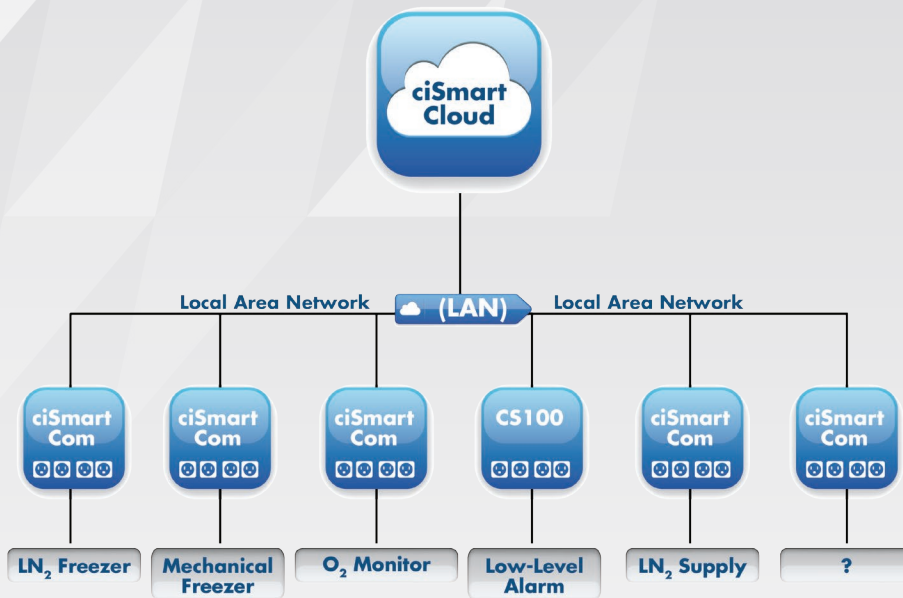# ciSmart™ Com
Data Management

ciSmart™ Com is designed to extend the capability of liquid nitrogen refrigerators and freezers with monitoring, data collection, local and remote access, data graphing, alarm notification and advanced reporting.

Features

- Tracks multiple parameters
- Tracks normal conditions
- Tracks alarm conditions

Data Collection
- Temperature
- LN$_2$ level
- Errors
- Normal operating events

Benefits

- Immediately determine equipment status
- Safeguard contents by monitoring key parameters
- Eliminate false alarms by monitoring all parameters

- Freezer data in readable format
- Date/Time stamp for audit purposes
- Complete data assists troubleshooting & diagnosis
- Redundancy prevents data loss

ciSmart™ Com

Data Management

Features	Benefits

Local & Global Access
- Ethernet to local computer
- Remote to computer, tablet or smartphone
- Independent of operating platforms
- Connect to building maintenance alarm systems
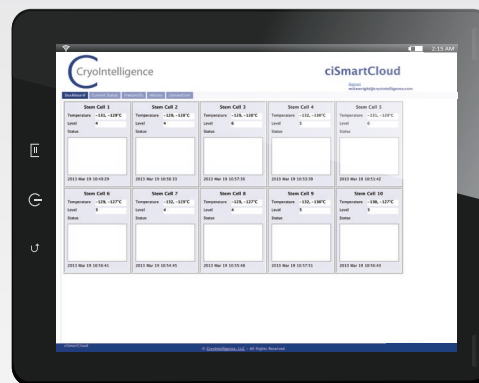
- No complicated programs to run
- Data is provided on any device instantly
- Data available regardless of location

Data Graphing
- Level
- Temperature
- Errors
- Operating events
- Scaleable parameters

- View graphical interaction of data
- Identify trending
- Easily identify exceptions

Alarm Notification
- Telephone call list
- Email
- Text message
- Independent remote alarm relay

Easy to use. No technical knowledge required.

Reporting
- Exception reports
- Periodic status reports
- Complete operational traceability

- Save labor by automating reporting
- Provides external data recording

Web Page Generation
- Real-time operating status
- Freezer settings
- Sensor readings
- Drill-down capability for additional information

- Ease of use
- No technical knowdedge required

Investment Protection
- Expandable: New features & capabilities
- Upgradeable: Upgrade software with little effort
- Customized Solutions: Specific applications

- Hardware does not become obsolete
- Simple firmware updates extend equipment life
- Specific apps provide customization

Lab Equipment Firmware Update Capability
- Worthington CS100 and CS200 controls

- Allow users to update firmware in the controls
- No technical expertise required

Ease of use
- Plug and Play

- No technical knowledge is necessary
- No IT support needed
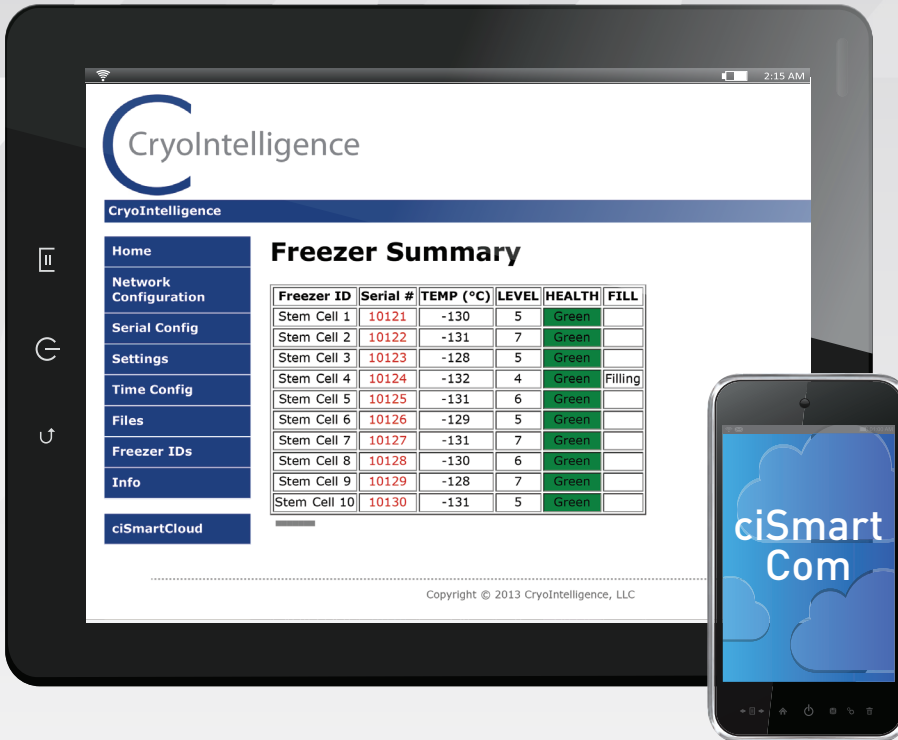
Samples and product stored in your cryogenic and mechanical freezers are valuable. ciSmart™ Com provides the most comprehensive solution to monitor, operate and troubleshoot equipment from anywhere, using your mobile phone or tablet to alleviate risks and protect your investment.

ciSmart™ Com helps manage and simplify daily tasks associated with the operation of your equipment. It provides easy expansion and upgrades without disrupting your operations. Custom solutions are also available and easily implemented.

Specifications

Power
- Input: 90-240 VAC
- Output: 12 VDC

Communication Inputs
- Cryowire: 2 ports
- Serial: 4 ports (Configurable, RS232, RS485)

Communication Outputs
- Ethernet
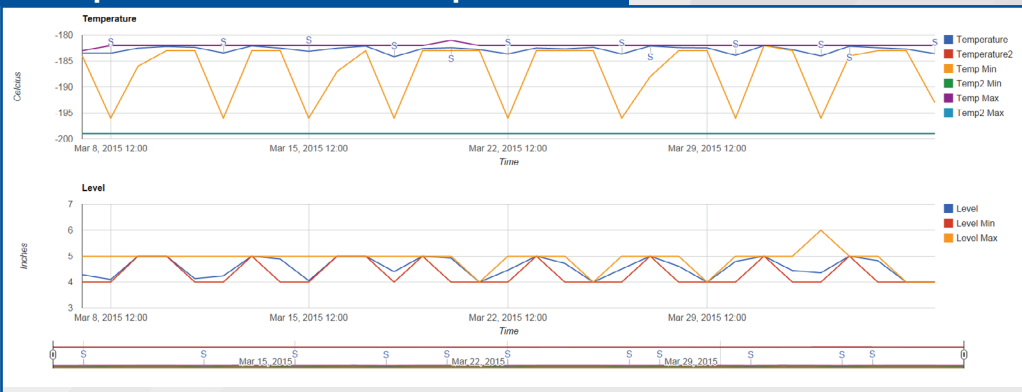- Cryowire Secure™
- Remote alarm relay

Data Views
- Summary
- Graph
- Drill-Down

Device Compatibility
- Various brands of nitrogen or mechanical freezers

ciSmart™ Com
Data Management

Temperature Level Graph

Temperature Level Graph - 4 days

Temperature Level Graph - 10 days

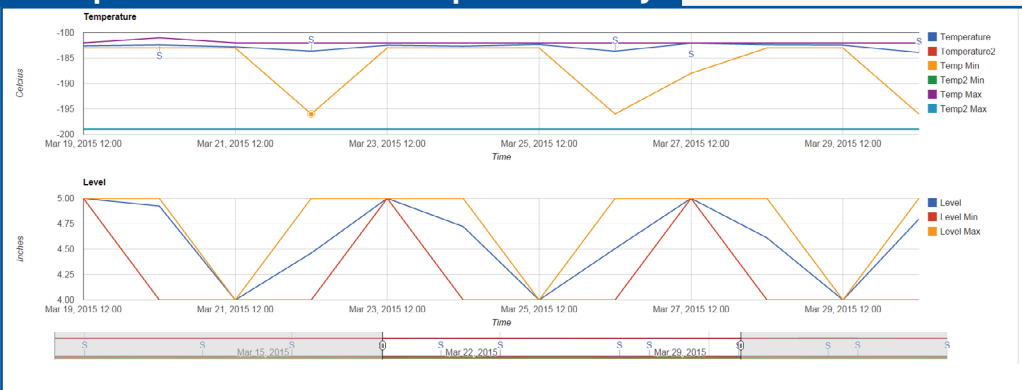Easily graph the data collected from your cryogenic freezer or other laboratory equipment. **ciSmart™ Cloud** is the only system that can graph temperature level, system events and error conditions together on the same graph, consolidating the information for simple and quick analysis.

Events are shown on the graph line with details appearing when the mouse pointer hovers over the shape. The user can focus on specific data by modifying the reporting period.

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