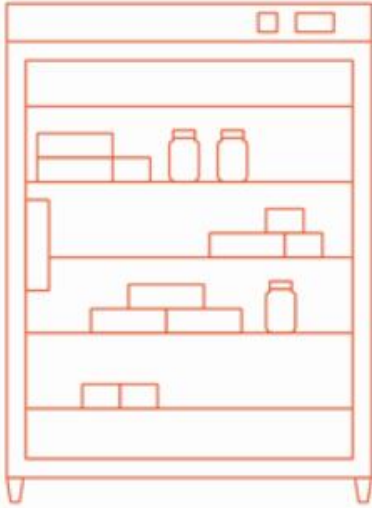




IVF

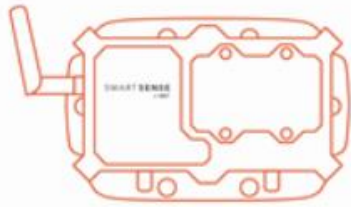
Digital Instruments

**John Swanson
Leo McNamara
Tayler Swanson**



HOW IT WORKS

Remote Monitoring With SmartSense



Wireless Sensors
Temperature Data



SmartSense Gateway
Transfers Data



SmartSense Dashboard
Web-Based Analytics & Insights

IVF Lab Equipment Monitored





1 Cellular Gateway

+

1-24 Sensor Nodes



Cellular Gateway



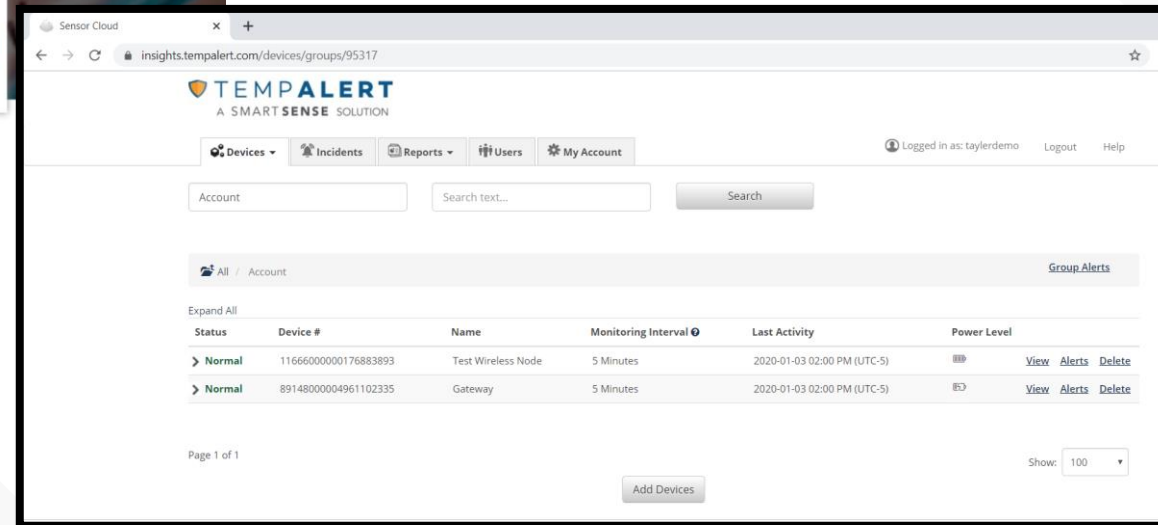
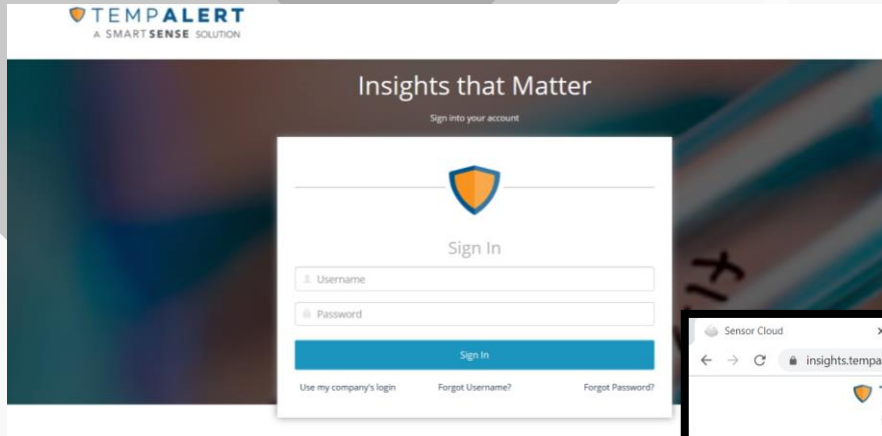
- 4G Cellular Connection for continuous Data streaming to Cloud Platform
- Built in Power Monitor with 24 Hour Battery Back Up
- 4 Sensor Input Ports for Device monitoring

Wireless Sensor Node



- **Auxiliary Sensor Ports (2)**
 - LN2 Level/Temperature Probe
 - Device General Alarm Dry Contact Sensor
 - Standard Temperature Range Probe/Humidity Sensor
- **Battery Powered with Life Expectancy ~1.5 years**
- **Built in Temperature Sensor**
- **Waterproof Case**

Online Dashboard



- Custom Log In and User Access
- Home Page to All Sensor Listed and View Status

Records of Alarm Incidents for Traceability

TEMPALERT
A SMART SENSE SOLUTION

Devices Incidents Reports Users My Account

Logged in as: taylerdemo Logout Help

Test Wireless Node - Ambient Temp (port #0)

Account Incident #33910306 Started on: 2020-01-03 02:05 PM (UTC-5)

Status: New Apply Owner: Swanson, Tayler (taylerdemo) Apply

INCIDENT DURATION	LAST SEVERITY	MAX SEVERITY	# ACTIVE ALARMS	# RESOLVED ALARMS
15min	Lowest	Lowest	1	0

Incident Note Add Note
200 characters remaining.

ALARM EVENTS

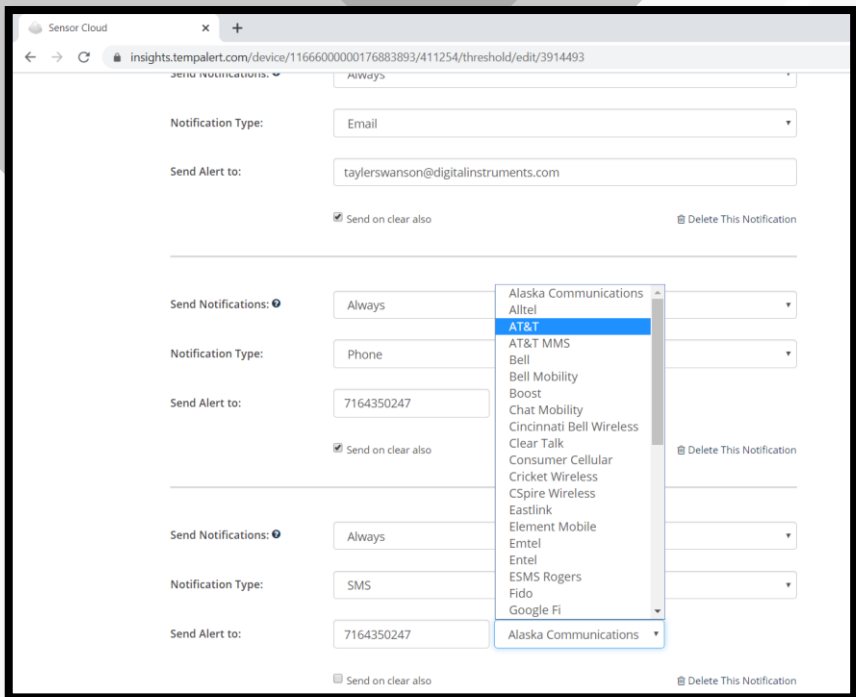
ALARM #	NAME	STATUS	TIME IN ALARM	OPENED ON	ACKNOWLEDGED?	SEVERITY
45915434	Ambient Tank Temp Low	!	15min	1/3/2020 2:05:32 PM	Acknowledge	Lowest

TIMELINE

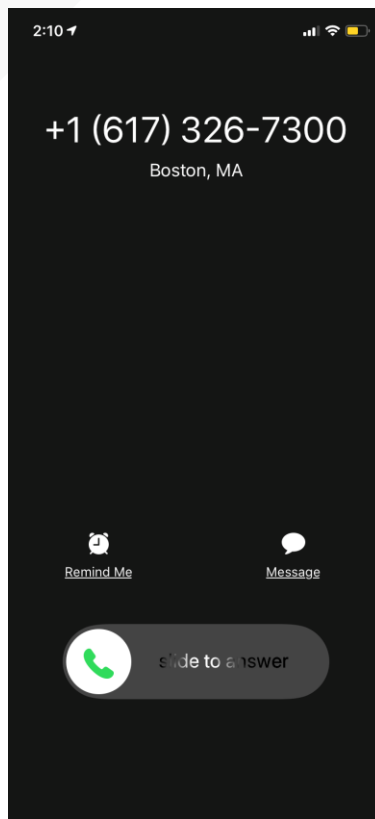
DATE	ALARM #	EVENT	USER	DETAILS
2020-01-03 02:15 PM (UTC-5)	45915434	Notification - SMS		7164350247: -- T@ Alert! --
2020-01-03 02:15 PM (UTC-5)	45915434	Notification - Phone		1 7164350247: (Completed)
2020-01-03 02:15 PM (UTC-5)	45915434	Notification - Email		taylerswanson@digitalinstruments.com: Test Wireless Node -- T@ ALERT! 20.4 C --

- Alarms are recorded and stored online
- Full List of the Timeline of Alerts and who received the notifications
- Owners can be assigned to alarms
- Notes can be made on each alarm

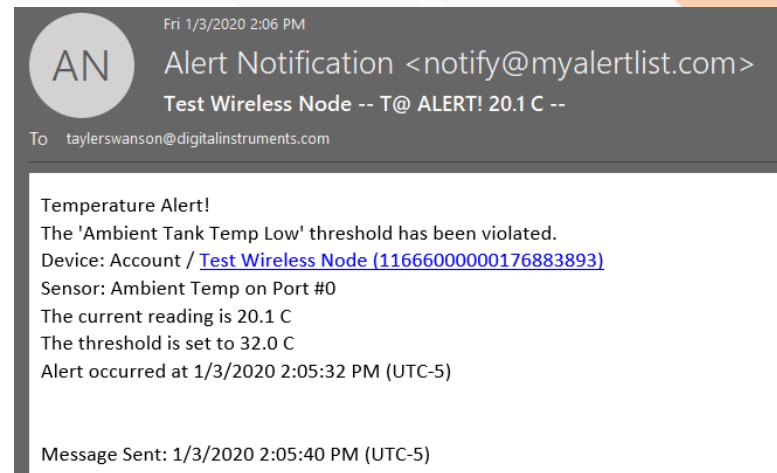
Customize Alarm Notifications



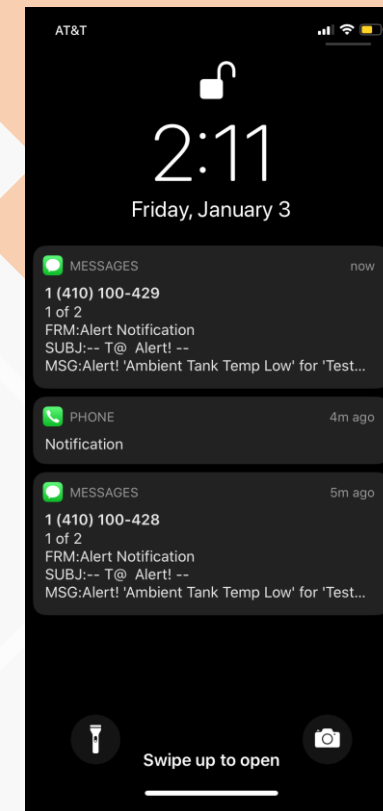
Customize



Phone Call



Email



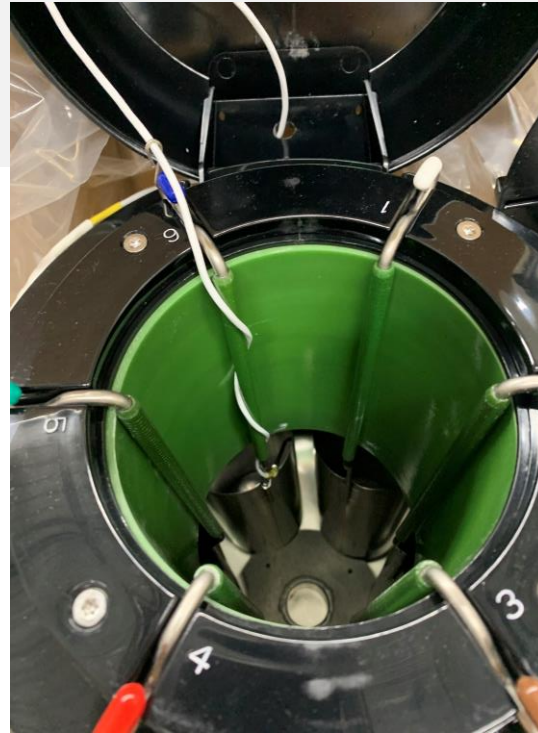
Text

••••• Sensor Set-Up

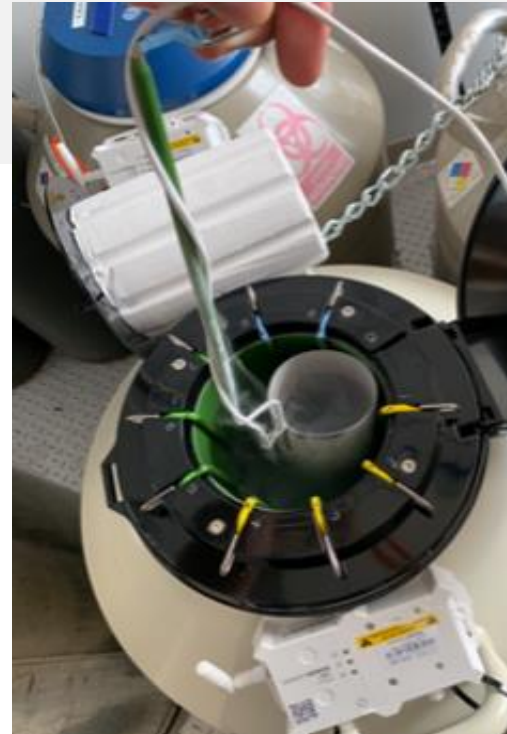
LN2 Probes mount on Dewar Canister with slack for accessibility as well as through cork



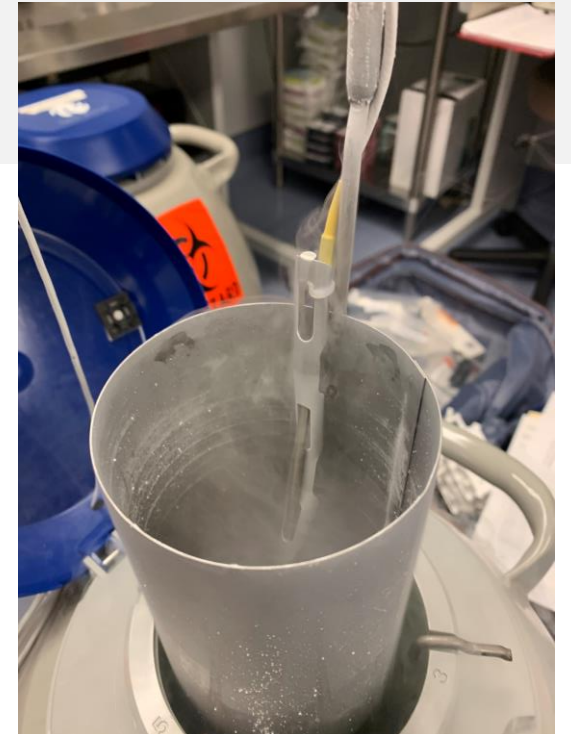
• Mobile



• Neat



• Accessible



• Accurate



Sensors Mounted Enabling Dewar Mobility



Before



After



Sensors Mounted Neatly To Monitor Box and Benchttop Incubators of all brands



Box Incubators



Benchttop Incubators



Committed Support

- Access to 24/7 Technical Staff
- 12 Month Warranty on all equipment
- Scalable Service and Device Plans
- Proven success in Labs across the United States
- Capable of Custom Designs + Reporting

Digital Instruments Inc.
support@digitalinstruments.com
716-874-5848
[Login - https://insights.tempalert.com](https://insights.tempalert.com)

Daily Sensor Report

Signature _____
Date _____
Date Published 06-25-2020 09:00 AM

Status	Normal	Status	Normal	Status	Normal
Name	ART EMB 17 A-M	Name	ART EMB 18 M-Z	Name	ART EMB 19 A-M
Group	CryoTanks	Group	CryoTanks	Group	CryoTanks
Power Status	100%	Power Status	100%	Power Status	90%
Port0	21.9	Port0	22.1	Port0	21.9
Port2	-195.9	Port2	-196.2	Port1	-196.1

Status	Normal	Status	Normal	Status	Normal
Name	ART EMB 20 N-Z	Name	ART EMB 21 A-K	Name	ART EMB 22 L-Z
Group	CryoTanks	Group	CryoTanks	Group	CryoTanks
Power Status	100%	Power Status	100%	Power Status	100%
Port0	21.9	Port0	21.8	Port0	21.8
Port1	-196.0	Port1	-196.1	Port2	-195.8

Status	Normal	Status	Normal	Status	Normal
Name	ART EMB 23 A-J	Name	ART EMB 24 K-S	Name	ART EMB 25 D,F,R,S,T,U,V,W,X,Y,Z
Group	CryoTanks	Group	CryoTanks	Group	CryoTanks
Power Status	100%	Power Status	100%	Power Status	100%
Port0	21.9	Port0	21.9	Port0	22.0
Port2	-196.1	Port2	-196.0	Port2	-196.3

Snapshot of Daily Sensor Report



IVF

Digital Instruments

Contact Us for a Custom Quote

PH: 716-874-5848

VP of IVF Sales

Leo McNamara

EM: leovmcn@gmail.com

Engineering/Sales

Taylor Swanson

EM: taylerswanson@digitalinstruments.com