

Product Catalog

Your Monitoring Solutions
Hardware, Software & Services

Cafeteria


Temp &
Humidity


Leak
Detection


Open
Door


Occupancy

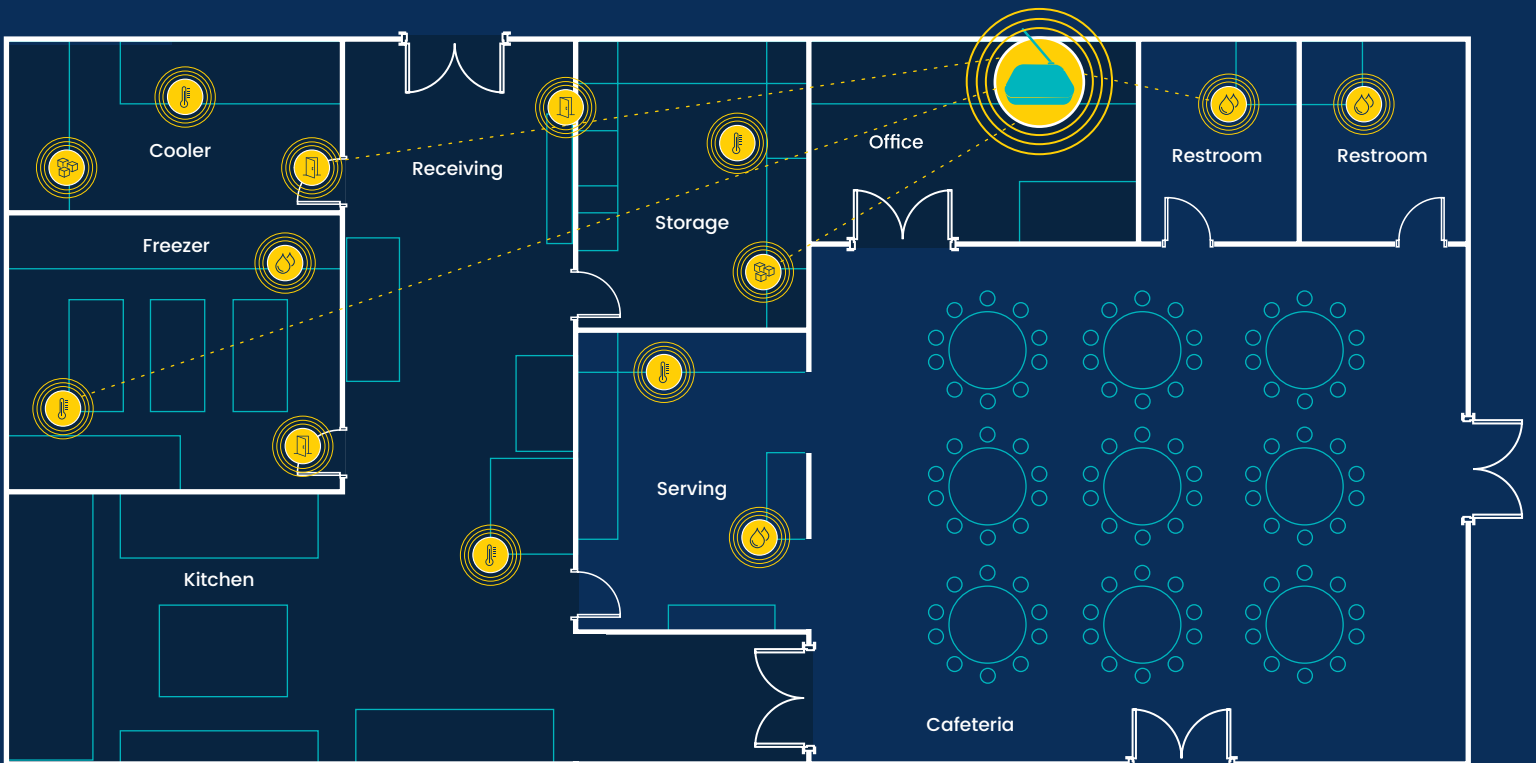


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Safety, Compliance & Efficiency. Simplified.

Temperature and Environmental Monitoring.

Trusted by hundreds of facilities to eliminate costly operational mishaps while improving compliance readiness.

Connect, Detect & Protect Your Assets and People.



The Pain Points

WHY MONITORING, WHY NOW



Your problem

Freezers fail. Compliance is tedious. People forget, make mistakes, and the world is full of unknown risks. Any of these can cost you time, money and loss of reputation. Expectations are high. You need a way to meet those expectations.



Here's why solving it is hard

You don't know when disaster will strike. You can't manufacture time for compliance tasks. Life happens; rarely does disaster call ahead.



Here's how Sonicu helps

Simple sensors that install in minutes. Intuitive app that connects you to your freezers. Regulatory reports ready whenever the audit happens. Live customer support so you're always on it.



Here's who it's worked for

The finest names in healthcare - Indiana University Health, Universal Health Services, Baylor, Scott & White - as well as life science - MiraVista, Stanford, Harvard, etc. -- and food service leaders such as US Foods and Smithfield Foods.



Here's why Sonicu works

The internet connects to everything now, can remove the human element, AND stays awake all night, every night. We put an army of internet-connected devices to work to protect your most precious assets and environments. The army never sleeps, it never falters, it's working around the clock to help meet those high expectations.



Your life after investing in Sonicu

Immediate alerts via text, email, and phone call when temperatures fall outside of spec and when environmental conditions waver. Two-click compliance to satisfy virtually any regulator. No more binders full of manual logging and no more worrying if your team is being diligent about their logging responsibility. Automate everything around alerts and compliance and have your calibrated probes sent to your front door with plug-and-play recalibration so you're always on the right side of regulators.



What my product actually does

Sensors and probes capture data. Transmit it wirelessly to the AWS Cloud, where it's stored indefinitely. Ready anytime, all the time, anywhere and everywhere.



Why do our customers rave about Sonicu

It's so darn easy. To install, to configure, to use.



Why you should invest in Sonicu

Sensors and probes capture data and transmit it wirelessly to the AWS Cloud, where it's stored indefinitely. Ready anytime, all the time, anywhere and everywhere.

The communicating device has backup data and battery so you won't lose data even if a natural disaster or network outage strikes your organization. Compliance. Asset Protection. Peace of Mind.



Customer Testimonials



Indiana University Health

The largest healthcare system in Indiana, with 16 hospitals and over 36,000 employees.

“Consolidating with one provider helps us better manage our assets and our people, and gives us systemwide visibility. Sonicu provides excellent customer service and is very user friendly.”

Facilities Supervisor

IU Health



CHEF'S
COMMISSARY™
CREATIVE CULINARY SOLUTIONS

A high-quality frozen hors d'oeuvres and desserts manufacturer serving the most premier dining establishments in the US.

“It had to be easy and could not cost us a fortune. Sonicu made it simple for us: for a few thousand dollars and a few hours of time, I was able to get a great system I could justify the cost of and get it up and running without a major hassle.”

John Radcliff



Katherine Shaw Bethea Hospital is a healthcare facility dedicated to providing high-quality patient care, including the safe storage and handling of critical vaccines and medications.

“You hear about this sort of thing happening, and we had spoken about putting this in the budget every year, but something else always came up. Then we lost a refrigerator full of vaccines, and we decided this would be the year we got a temperature monitoring system.”

Luke Herbert



Exide Technologies specializes in lead-acid battery manufacturing and is committed to environmental responsibility while adhering to stringent health and safety regulations.

“Sonicu met all of our criteria for this project, including the mobility of the devices from one location to another and for differential pressure to be monitored both locally and remotely by our operators and management.”

Steve Delmar,





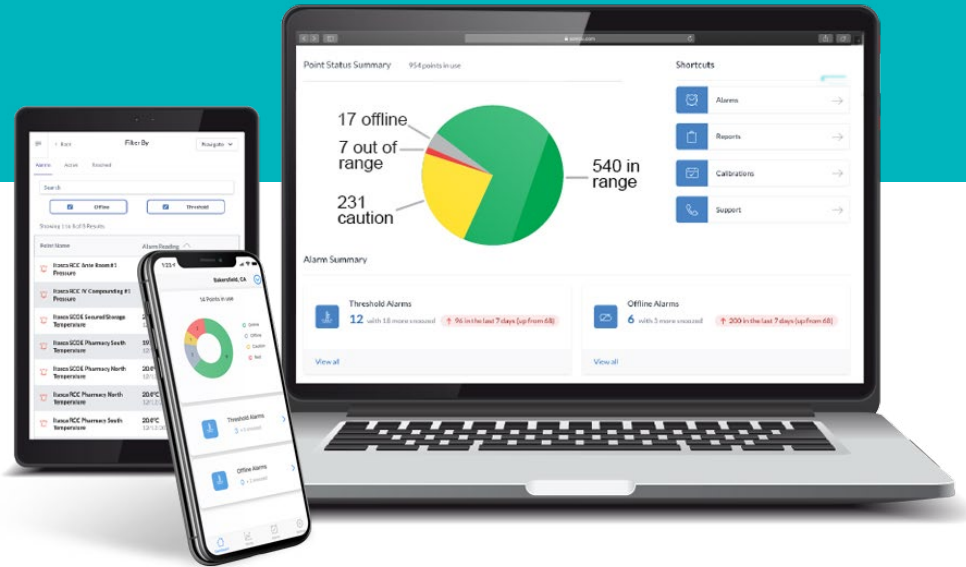
ASSET PROTECTION + Compliance Automation = Your Peace of Mind

Say Goodbye to Manual Logging, Tedious Compliance Reports, and the Threat of Critical Asset Loss.

Say Hello to cloud-based, 24/7 asset protection that unleashes your people, automates your critical reporting, and delivers peace of mind that your critical environments are always protected.

**Safety, Compliance & Efficiency.
Backed by U.S.-based live support**

WHY TRUST SONICU:



- Serving diverse critical industries
 - 800+ customers
 - 20,000 monthly users
- Thousands of regulatory audits passed
- Thousands of perishable assets saved
- Tens of thousands of work hours slashed

APPLICATIONS & INDUSTRIES



Healthcare



Food Service



Research/
Laboratories



Industrial/
Manufacturing



K-12

CELL



WIFI



ETHERNET



Sonicu provides access, alarming and archiving 24/7/365 via any internet-enabled device.

A COMPREHENSIVE and Automated Approach to Environmental & Temperature Monitoring

Monitoring fridges, freezers, and storage rooms manually can be a time-consuming and labor-intensive task.

The reliance on paper-based temperature documentation during inspections by regulatory authorities can create additional stress and exhaustion.

We understand the challenges posed by manual data logging in environmental temperature monitoring.

That's why we offer a solution that eliminates the need for cumbersome paper-based documentation. Our technology automates the monitoring process, providing real-time data and alerts.



"Cost competitiveness, great customer service, great control over the monitoring system, and low maintenance. You can't beat that."

"The Sonicu system provided an easier, faster solution, compared to existing systems like radio-wave transmission signals. Now the cloud-based system is available, and the signal is faster and way easier to maneuver and control."

Misa Hata, Director, Innovation Center, Ohio University



By replacing manual data logging with our system, you can **significantly reduce the time and effort spent on monitoring tasks.**

Our solution streamlines the process, ensuring accurate and reliable temperature data without the hassle of maintaining paper records.

You can confidently face inspections knowing that your temperature-sensitive assets are being monitored digitally.

With Sonicu, you can simplify temperature monitoring, alleviate stress, and improve efficiency in managing fridges, freezers, and storage rooms.

Say goodbye to the complexities of manual data logging and embrace a streamlined, digital solution for enhanced accuracy and compliance.

HOW IT WORKS:

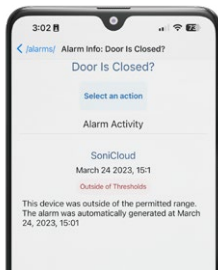
Wireless Remote Monitoring & Compliance Software



1

Wireless Sensors and Probes

Rugged and reliable hardware installed professionally or easily with our app-based wizard to capture all your critical data. Simple annual calibration with the SNAP program.



2

SoniCloud Dashboard and Mobile App

All your data. In one simple location with powerful alerts, reports and redundancies to protect your assets and people.



3

Seamless Calibration and NIST Compliance

Simple calibration renewal with SoniCloud's SNAP calibration program keeps your facility compliant.

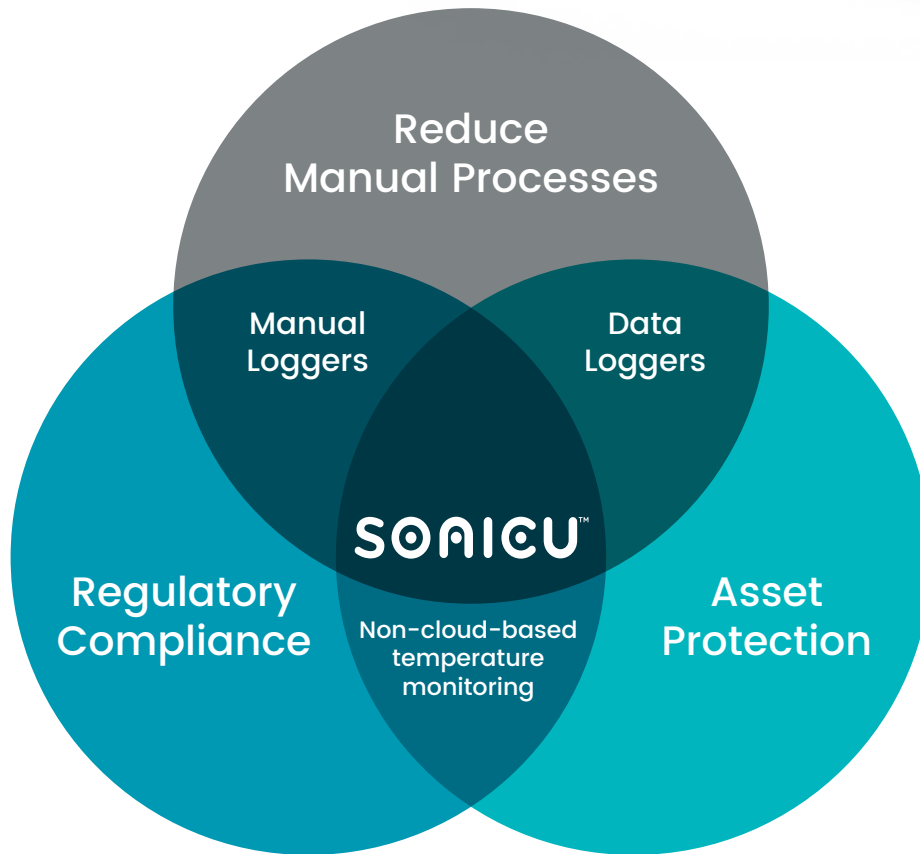


4

Unwavering Customer Support

SoniCloud Academy for on-demand training and American-based phone support.

Your precious assets and sensitive environments: Connected and Protected



TEMPERATURE

- Refrigerators
- Freezers
- Walk-In Cooler
- Refrigerated Warehouse
- Cold-Chain Distribution



TEMPERATURE

- Blanket Warmers
- Incubators
- Food Warmers
- Food or Livestock Producers
- Industrial Applications



HUMIDITY

- Compounding Rooms
- Warehouses
- Clean Rooms
- Surgery Rooms
- Research Labs



DIFF. AIR PRESS.

- Compounding Rooms
- Surgeries and Isolation Rooms
- Clean Rooms
- Construction Sites
- HVAC Systems



CRYOGENIC

- Cryogenic Freezers
- Liquid Nitrogen
- Dewars
- Cryotherapy
- Biologic In-Vitro
- Flash Freezing



INCUBATOR

- Incubator
- Life Science
- Research

Data Transmission Flexibility

Ready for Any Environment



Cellular – Wi-Fi – LoRaWAN

SoniLink is LoRaWAN-powered



Duo and SoniLink Hub

SoniShield DUO:

Redundancy Meets Simplicity

Your Secure and Redundant Communicating Workhorse

Compatible with any combination of two Sonicu NIST-certified digital sensors, the Duo uses wireless technology to deliver an efficient and simple wireless monitoring experience.

- Asset Protection
- Compliance Automation
- Operational Efficiency

Maximum Protection:

- Years of onboard memory: Data continuity
- Year of power backup: Rechargeable
- Bluetooth enabled for instant install wizard
- Wireless connection to external display



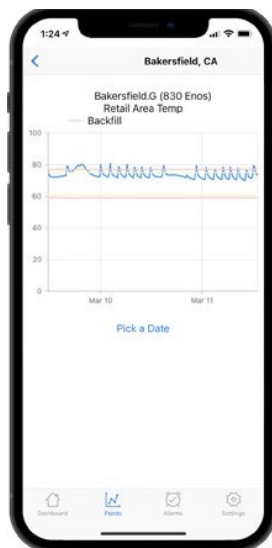
Convenient Mobile App

Wireless Meter

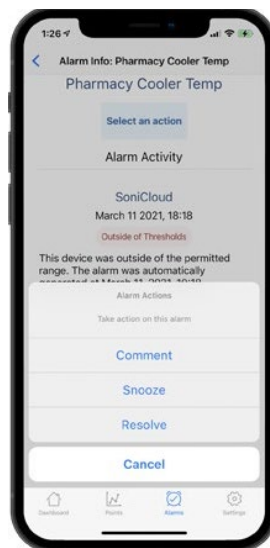
Android and iOS App Functions



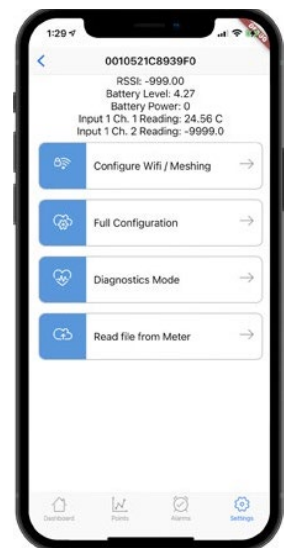
Summary Views



View Temp Logs

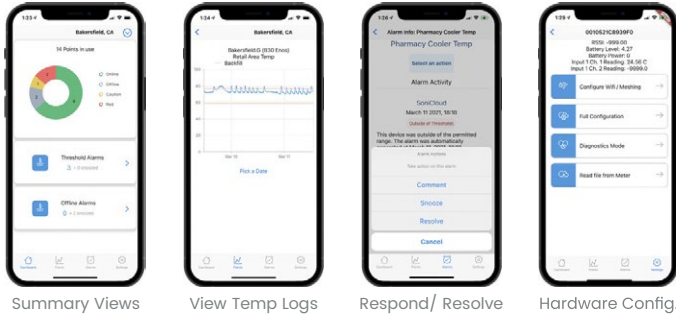


Respond/ Resolve



Hardware Config.

Android and iOS App Functions



Additional App Functions: Enterprise dashboard, active alarm summary, alarm details, network connectivity, configuration, file upload, zone view, and more!

Applications & Industries

Cold temperature, extended range for -80°C ULT, ambient temp and humidity, solid and glycol buffered product simulator, CO₂, room air pressure.

Industries include: hospitals, pharmaceutical, public health clinics, research labs, data centers, food safety, & industrial.

Specifications

External Ports:	Two sensor input ports One Micro-USB charging port
Construction:	Rugged, ABS plastic housing
Dimensions:	3.87" x 2.51" x 1.20"
Weight:	0.39 lbs.
Radio Protocols:	4G/5G Cellular, with GPS Wi-Fi 802.11 b/g/n 2.4GHz Wi-Fi 802.1x authentication LoRaWAN
Power Modes:	5200 mAh, Li-ion polymer 3.7V long-life rechargeable battery 5V 1A DC adapter, 6ft cable (included)
Enterprise Security:	Wi-Fi: WPA2 Cellular: standard encryption to tower, virtual private network (VPN) to cloud, completely secure
Operating Temp:	-10°C to $+40^{\circ}\text{C}$
Humidity:	10 to 85% RH, non-condensing
Extension Cables:	Flat 6-ft, 15-ft and 25-ft
Mounting:	Adhesive or Magnetic/Screw Mount options available
Warranty:	Warranted for duration of Sonicu Service Agreement

Part Number and Description

Duo-WF	SoniShield-Duo-WiFi
Duo-SL	SoniShield-Duo-900 MHz
Duo-LTE	SoniShield-Duo-Cell (4G/5G LTE)

Digital Sensor Options (NIST Calibrated)

100234	Glycol Buffered Temperature Range: -55°C to $+30^{\circ}\text{C}$ Accuracy: $\pm 0.5^{\circ}\text{C}$									
101234	Solid Buffered Temperature Range: -55°C to $+30^{\circ}\text{C}$ Accuracy: $\pm 0.5^{\circ}\text{C}$									
100181	Non-Buffered Temperature Range: -55°C to $+125^{\circ}\text{C}$ Accuracy: $\pm 0.5^{\circ}\text{C}$									
101279	Warm Buffered Temperature Range: 0°C to $+160^{\circ}\text{C}$ Accuracy: $\pm 0.5^{\circ}\text{C}$									
114200	Differential Pressure, DPS Range: ± 4 inches water column Accuracy: $\pm 0.25\%$									
Ambient Temperature & Humidity										
114100	<table border="1"> <thead> <tr> <th></th> <th>RangeA</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>Temperature</td> <td>-10°C to $+80^{\circ}\text{C}$</td> <td>$\pm 0.4^{\circ}\text{C}$</td> </tr> <tr> <td>Humidity</td> <td>0-100% RH+</td> <td>$\pm 0.25\%$</td> </tr> </tbody> </table>		RangeA	Accuracy	Temperature	-10°C to $+80^{\circ}\text{C}$	$\pm 0.4^{\circ}\text{C}$	Humidity	0-100% RH+	$\pm 0.25\%$
	RangeA	Accuracy								
Temperature	-10°C to $+80^{\circ}\text{C}$	$\pm 0.4^{\circ}\text{C}$								
Humidity	0-100% RH+	$\pm 0.25\%$								
100260	ULT (ultra-low temps) 4 ϕ Stainless Sheath, Range: -205°C to 0°C Accuracy: $\pm 0.5^{\circ}\text{C}$									
100261	Cryogenic (LN ₂) 15.5 ϕ Stainless Sheath, Range: -205°C to 0°C Accuracy: $\pm 0.5^{\circ}\text{C}$									

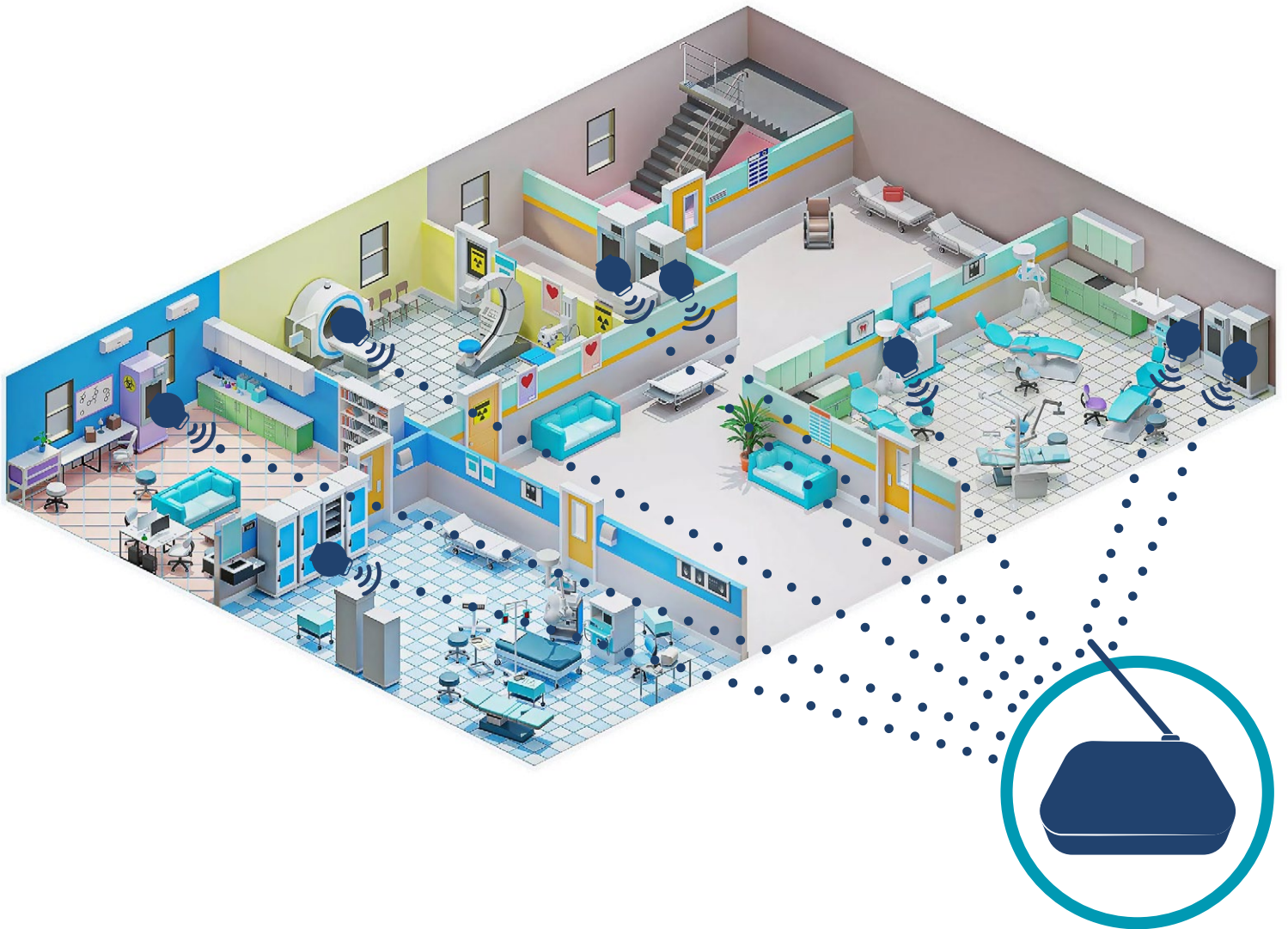
Accessory Items (order separately)

010503	USB Power Extension (adds 6 ft to Duo power cable)
113600	Magnetic/Screw Mount

SoniShield Duo Dimensions



SoniLink Hub in a Regulatory Environment



S-Series Temp and Humidity Monitoring Delivers

- Ambient temperature and humidity capture
- Cold storage with ranges from -30° to 60° Celsius
- Two years of fully replaceable battery life
- Leverages two AA batteries
- Simple peel-and-stick installation to virtually any application

SoniLink Hub

**Longer range with higher capacity
for large scale deployments &
simple configuration for
plug-and-play operations**

Your secure, resilient and redundant solution
for dense monitoring environments



A New Standard in Wireless Connectivity

SoniLink is the new standard connectivity option for your wireless monitoring platform. Leveraging the LoRaWAN standard for low power, and wide-area (LPWA) networking, SoniLink wirelessly connects SoniLink sensors and meters to the cloud platform and provides a superior range compared to Wi-Fi, Zigbee or Bluetooth connectivity options.

SoniLink sensors require zero configuration to connect to SoniLink hubs, dramatically simplifying the deployment of SoniLink monitoring solutions. For customers with low IT involvement, a cellular-based version of the SoniLink Hub enables rapid deployment without IT resources.

Each SoniLink hub can accommodate hundreds of SoniLink sensors, allowing organizations like hospitals, universities, distribution centers, and manufacturing facilities to minimize their hardware footprint by placing centralized hubs throughout their facilities.

Faster deployment, superior range, decreased IT resources, and a smaller hardware footprint all add up to a better ROI for customers choosing SoniLink!

SONILINK FEATURES:

- 1. Range and Capacity:** SoniLink delivers industry-leading scalability
- 2. Up to 500 sensors supported** supported by a single Hub.
- 3. Transmission range is significantly better than Wi-Fi** or other 900MHz RF options.
- 4. Only a minimal number of SoniLink Hubs are needed** to support large scale deployments of thousands of Sensors

SoniShield View

Digital Meter with Powerful Mobile App

The only in-room display that shows real-time cleanroom conditions for immediate feedback which also includes cloud-based monitoring capabilities for remote alerts and compliance automation. Capture ambient temp and humidity, air pressure and velocity and door open status. The only in-room display that shows real-time cleanroom conditions for immediate feedback which also includes cloud-based monitoring capabilities for remote alerts and compliance automation. Capture ambient temp and humidity, air pressure and velocity and door open status.



Real-Time Visibility

The SoniShield View display delivers real-time room monitoring and the powerful SoniCloud Mobile app wirelessly configures the View in seconds.

Features:

- Real-time readings shown on the screen
- Local on-board memory backup
- SoniCloud's industry-leading data storage

The SoniShield View is ideal for monitoring:

- Ambient humidity and temperature
- Room pressure differential
- Door status for installed areas
- Monitoring available locally and in cloud

The SoniShield View is a powerful and easy-to-use wireless monitoring device available with a local LCD full-color display. Wirelessly transmits critical sensor data to the SoniCloud platform:

- 24/7 automated monitoring & visibility
- Regulatory compliance reporting

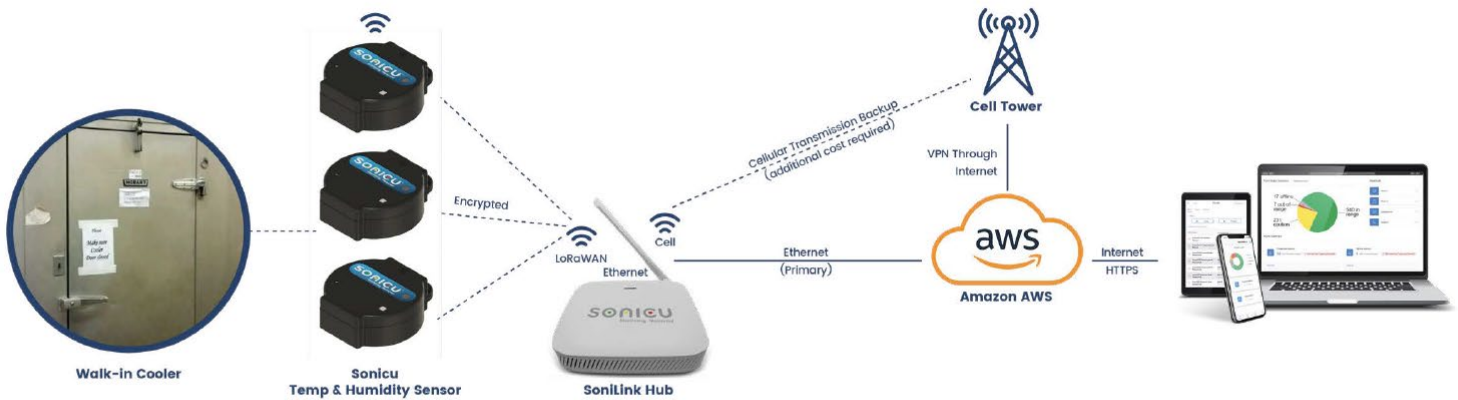
Coupled with SoniCloud app (for Android and iOS), users experience control and convenience. Responding to temperature alarms or viewing trended sensor data are quickly accomplished. Hardware setup and configuration tasks are accomplished rapidly with the app.

SoniCloud Mobile App for All Users

All users enjoy our enhanced interface experience using the new mobile app for Android and iOS.

SoniShield View Advantages

- 1 Deploy quickly and support WiFi, Ethernet, and Ethernet** with Cell Failover.
- 2 On-board memory storage protects data during network interruptions** and automatically uploads stored data to SoniCloud via Data Sync.
- 3 Installing the SoniShield View is a snap** - simply install a three gang electrical box in a wall, run low voltage power, and you're ready to go. A surface mounted option also available.
- 4 Sonicu's SNAP Calibration Program** ensures regulatory compliance by providing freshly calibrated NIST sensors with NIST Certificates before current sensors expire.



Simple Redundancy

- Cell to Cell failover options
- Add Secondary hubs anywhere for configuration-free redundancy.
- Automatic configuration: Zero Hardware configuration required to transmit data.

Simple Configuration

- Cellular connectivity hubs ready for deployment without any IT intervention.
- Zero Hardware configuration requirements

Superior Range and Scalability

- Extended range between sensors and hubs simplifies installation
- SoniLink hubs handle 500 sensors, reducing the cost of hardware
- Low power consumption and cost provides conduit for seamless expansion

Plug-and-Play Architecture

- Improve scalability with minimal infrastructure, saving time and money
- Easy to deploy: Zero-touch configuration makes installation simple
- Proven technology is widely adopted and proven globally
- Limited IT Involvement saves staff time

Security and Redundancy

- End-to-End data encryption: secure data transmission Meter-specific AES-128 encryption with AES-CMAC Over-the-Air Activation
- Ethernet to Cellular options at Hub provide seamless connectivity failover
- Configuration free redundancy by adding Hubs provides redundancy of the network

Specifications

Compliance:	LoRaWAN 1.0.3 specification compliant
Supported bands:	US91 5
Activation:	LoRaWAN Activation by OTAA/ABP
Communication:	LoRa Point-to-Point (P2P) communication
Range:	Long-range - greater than 15 km with optimized antenna
Processor:	ARM Cortex-M4 32-bit
Memory:	256 kbytes flash memory with ECC
RAM:	64 kbytes RAM
Consumption:	Ultra-Low Power Consumption of 1.69 μ A in sleep mode
Supply Voltage:	5 VAC 2.5A input POE - IEEE 80% at
Temp. Range:	-0° C - 70° C

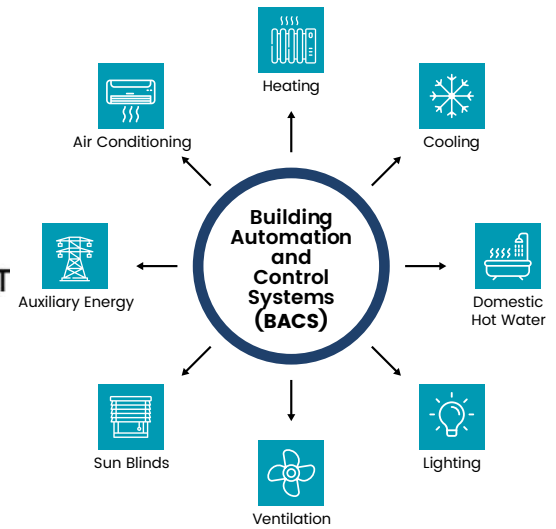
Sonicu CloudLink



How does it work?

The CloudLink solution requires two steps:

1. In coordination with Sonicu, a customer establishes a profile including which points of monitoring should be reflected on the CloudLink.
 - a. This includes setting up 'slot mapping', indicating which point of monitoring in SoniCloud should be replicated to which 'slot' in the Modbus/BACnet memory map.
 - b. The customer programs their BAS/BMS to connect to the CloudLink via either Modbus/TCP or BACnet IP.
2. They can query the CloudLink for temperature and environmental monitoring data, translate the data into the format desired for their system, and load the data into their BAS/BMS.



Specifications

Certifications:	FCC, ISED, EU, UKCA, UL/ IEC62368-1
Dimensions:	85 mm x 22 mm x 100 mm
Topology:	Ethernet with optional AT&T Cellular
Mounting Style:	DIN-rail or wall mount
Physical Interface:	2x Serial (RS232/422/485), 1x USB 2.0 Host, 1x MicroSD slot
Temp. Range:	-30° to +85°C (-22° to +185°F)
Voltage:	9-30 V DC

What data is available in the CloudLink?

By default, the CloudLink replicates point serial numbers, the time at which the most recent reading occurred, and the value of the most recent reading.

If customers require additional information to be available in the CloudLink, they should contact Sonicu Engineering for further development.



Sensors and Probes

SENSORS AND PROBES









Easy to install, calibrate, and replace. These probes and sensors are the foundation of the Sonicu monitoring system. They communicate with the Duo meter or SoniLink hub.

Many Sonicu probes and sensors applied in highly regulated industries require SoniShield Duo as their communicating meter.

The Duo captures the information from the sensor and communicates via a number of methods to the SoniCloud platform, where users can view all of their monitoring data and access their compliance reports.

The Duo can be installed virtually anywhere in minutes. It connects with the SoniCloud mobile application installation wizard to make it easy for anyone to get the system up and running without technical support.

Applications where the SoniShield Duo is deployed include:

					
TEMPERATURE	TEMPERATURE	HUMIDITY	DIFF. AIR PRESS.	CRYOGENIC	INCUBATOR
Refrigerators Freezers Walk-In Cooler Refrigerated Warehouse Cold-Chain Distribution	Blanket Warmers Incubators Food Warmers Food or Livestock Producers Industrial Applications	Compounding Rooms Warehouses Clean Rooms Surgery Rooms Research Labs	Compounding Rooms Surgeries and Isolation Rooms Clean Rooms Construction Sites HVAC Systems	Cryogenic Freezers Liquid Nitrogen Dewars Cryotherapy Biologic In-Vitro Flash Freezing	Incubator Life Science Research

Assembled in Indiana

SENSORS AND PROBES



Sonicu Digital Sensor Information

Glycol-buffered Temperature Sensor



Includes NIST Calibration Certificate

Glycol-buffered sensor is ideal for cold storage applications including medical freezers and refrigerators. Best choice for vaccines, medications, and biologic materials storage.

Temperature Range	Accuracy
-55°C to +30°C	+/- 0.5° C

Solid Buffered Temperature Sensor

Includes NIST Calibration Certificate

Use for medical freezers and refrigerators when a Glycol-buffered sensor is not required. A great choice for cold-chain applications for food storage and transport.



Temperature Range	Accuracy
-55°C to +30°C	+/- 0.5° C

Non-buffered Temperature Sensor

Includes NIST Calibration Certificate

Non-buffered sensor designed for warm storage applications including blanket warmers, food warmers, incubators, etc. Also used for cold storage when a buffered sensor is not needed.



Temperature Range	Accuracy
-55°C to +125°C	+/- 0.5° C

Incubator Sensor

Includes NIST Calibration Certificate

The incubator monitoring solution includes temperature, humidity and CO₂, making it the ideal, cost-effective platform for the life science professionals.



CO ₂ Accuracy/ Range	0-25% CO ₂ / 0.5% CO ₂ + 3%
Temp Range/ Accuracy	-10 - 80 °C; +/- 0.4 °C
Humidity Range/ Accuracy	0 - 80% RH; +/- 3% RH

Ambient Temp & Humidity Sensor

Includes NIST Calibration Certificate

Combined temperature and humidity sensor is ideal for monitoring conditions in clean rooms, surgeries, labs, compounding pharmacies, warehouses, etc.



etc.

Part No. 101212

	Range	Accuracy
Temperature	-10°C to +80°C	+/- .4°C
Humidity	0 - 100% RH	+/- 3% RH

Air Pressure Differential Sensor

Includes NIST Calibration Certificate

Monitors air pressure between rooms to maintain a safe environment. For healthcare, pharmaceutical, construction and HVAC. Pickups include air duct, wall plate and ceiling mount.



Temperature Range	Accuracy
+/- 4 in water column	+/- .25%

-80° Freezer, Ultra-low ULT, LN2 Sensor (Cryogenic also available)

Includes NIST Calibration Certificate

Measures temperatures in -80 or cryogenic freezers. Use for sensing top level of LN₂ dewars. Medical labs, research and flash-freezing.



Temperature Range	Accuracy
-205° to 150°C (ultra-low)	+/- 0.5° C

Warm - Buffered Sensor

Includes NIST Calibration Certificate

Use for measuring temperature in warm environments. Applications: warming ovens, incubators, blanket warmers in medical, research and industrial.



Temperature Range	Accuracy
Up to 105°C (221°F)	+/- 0.5° C

S-SERIES: OCCUPANCY SENSOR



Introduction

The Sonicu occupancy sensor is designed to monitor occupancy and utilization in virtually any workspace and boasts up to 98 percent recognition based on its AI-powered smart sensing.

The occupancy sensor has dual versions transmitting data via Sonicu's proprietary LoRaWAN® communicating system, SoniLink.

Leverage the ability to detect the presence or absence of people or movement in a space and trigger actions or adjustments accordingly. Ideal for facility managers seeking improved data to drive energy efficiency measures, cost savings around utilization as well as safety and security.



Features

- Sensors seamlessly link to SoniLink Hubs, creating a comprehensive monitoring network – connect hundreds of sensors to a single hub, monitor large areas easily
- Our proprietary LoRaWAN® technology, SoniLink, ensures secure and reliable wireless connectivity. Experience real-time monitoring with range and efficiency
- 98% recognition rate based on advanced AI identification and analysis
- Wide installation height and detection range with two versions for various scenarios
- Support up to 16 mapped regions for detection
- Allow for bi-directional line-crossing people counting and people flow analysis
- Smart U-turn counting to filter redundant counting of people wandering around the area
- Support normal or blur mode and privacy masks

Specifications

People Counting & Monitoring

Field of View	Standard Version: 190 ° Horizontal, 112 ° Vertical High Ceiling Mount Version: 129.4 ° Horizontal, 68.4 ° Vertical
Full Monitored Area	Standard Version: 78m ² (R = 5m, H = 3m) High Ceiling Mount Version: 126m ² (L=18m, W=7m, H= 7m)
Installation Height	Standard Version: 2.5m to 4m High Ceiling Mount Version: 5m to 7m
Detection Rate ¹	Region Counting: Up to 95% Line Crossing Counting: Up to 98% People Flow Analysis: Up to 98%
Advanced Feature	Mapped Detection Region Customization, Filter U-Turns, Privacy Mask

LoRaWAN® Transmission

Protocol	LoRaWAN®
Transmission Power	20 dBm
Sensitivity	-137 dBm @300bps
Mode	OTAA/ABP Class C

Other Interfaces

Button	1 × Reset Button, 1 × Wi-Fi Button
LED Indicators	1 × Wi-Fi
Power Input	2-pin 3.5 mm Terminal Block

Specifications

Wireless Transmission

Technology	LoRaWAN®
Transmission Power	22 dBm
Sensitivity	-137dBm @300bps

Measurement and Interface

Detection Distance	10-15 mm
Button	1 × Reset Button (Internal), 1 × Tampering Button
LED Indicator	Single LED Status light

Software

Configuration	NFC Configuration via Mobile App
Alarms	Open/Close Status, Tamper

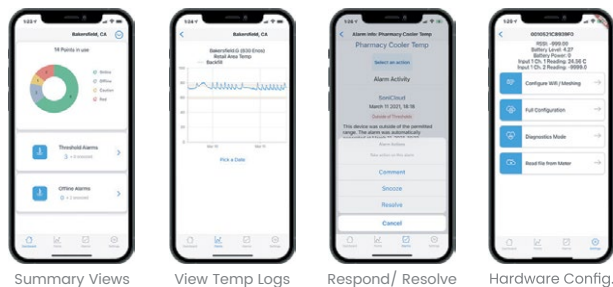
Physical Characteristics

Power Supply	1 × 1200 mAh ER14250 Li-SOCl ₂ Battery
Battery Life	Over 5 years
Operating Temperature	-20°C to +60°C
Relative Humidity	≤90% (non-condensing)
Ingress Protection	IP20
Dimension	Sensor: 50.5 × 31 × 18.5 mm (1.99 × 1.22 × 0.73 in) Magnet: 30 × 13.5 × 10 mm (1.18 × 0.53 × 0.39 in)
Installation	On the flat surfaces with screws or 3M tapes



S-SERIES TECHNICAL SPECIFICATIONS

S-Series is compatible with Sonicu Mobile app iOS and Android



Additional App Functions: Enterprise dashboard, active alarm summary, alarm details, network connectivity, configuration, file upload, zone view, and more!

Applications & Industries

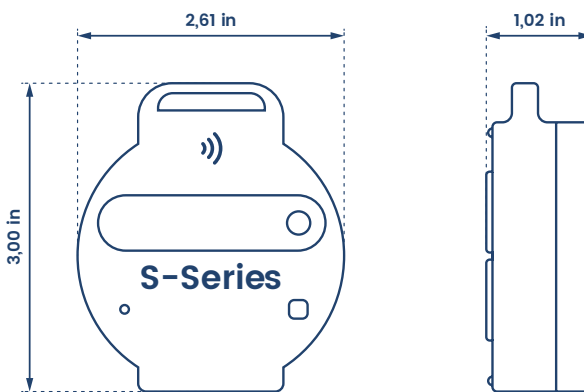
Ideal for any commercial refrigeration or ambient room condition monitoring with a wireless application and battery-powered flexibility. Deploys in minutes with mobile installation wizard.

Industries include: Retail cafeteria and cold chain applications as well as data/server rooms. K-12 for both cold storage and ambient conditions.

S-Series Specifications

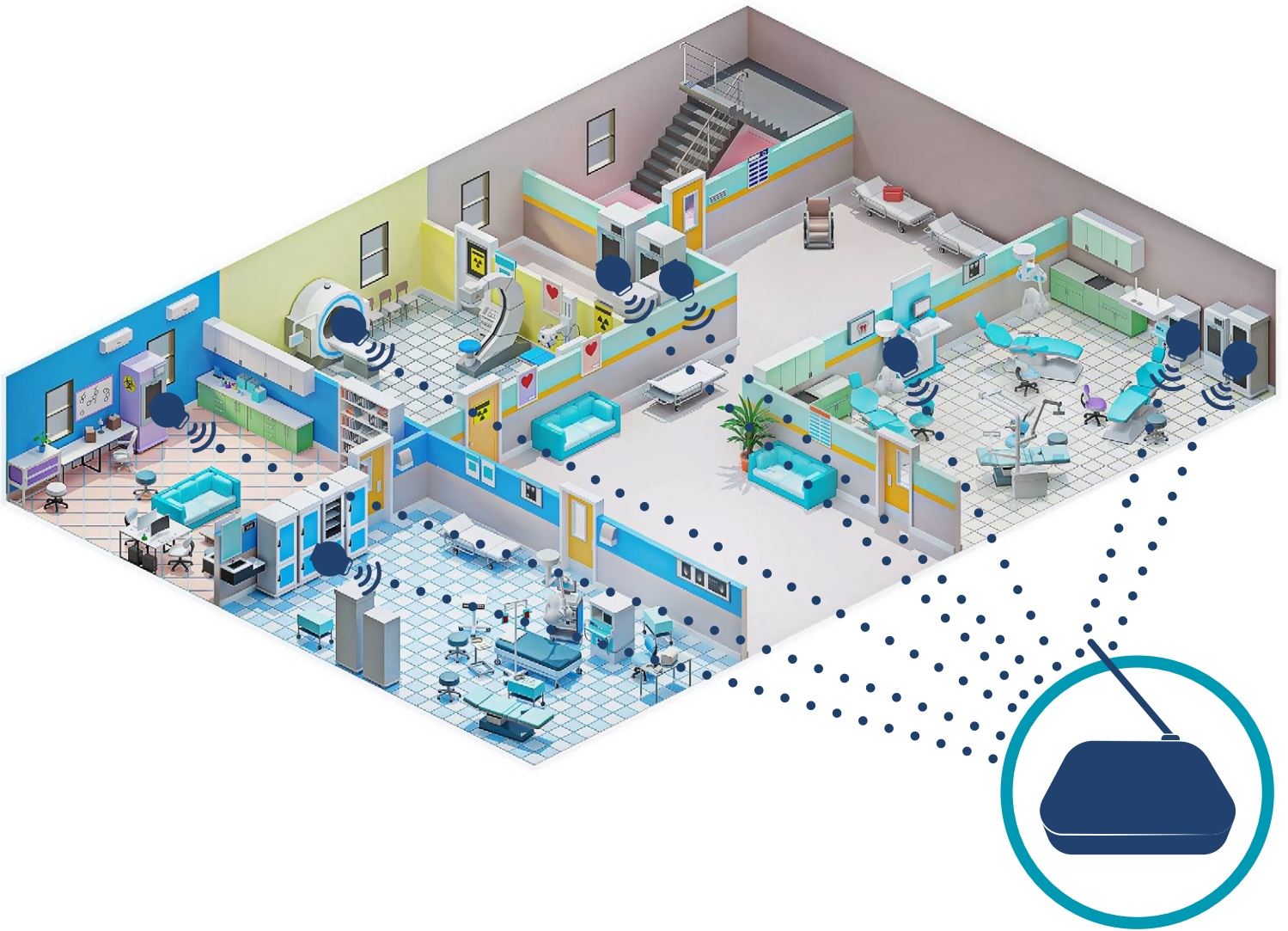
Dimensions	76mm x 66mm x 25mm
Weight	3.00 oz
Battery Life	2 Years
Communication Method	LoRaWAN US915
Communication Range	100 meters** (Under normal Operating Conditions)
Operational Temp Range	-30°C to 60°C
Temperature Reading Accuracy	± 0.5°C** (Typical)
Humidity Reading Accuracy	± 3% RH Max** (Typical)
Enclosure Ratings	Food Safe ABS Plastic, IP67

S-Series Dimensions



S-SERIES DEPLOYED

SoniLink Hub



A central hub connects via Ethernet to your network and communicates seamlessly and instantly with up to 500 sensors, making installation and configuration a snap. The battery-powered sensors will send alerts when they need to have batteries replaced.

With cold storage or ambient temperature and humidity capabilities, the S-Series combines NIST certification and off-the-shelf simplicity ideal for regulated cold chain and warehouse environments.

S-SERIES

Temperature & Humidity

The Sonicu S-Series is a low-cost, battery-powered sensor that is designed for less-regulated industries where temperature alarming is the primary concern. It communicates via LoRaWAN technology, a system separate from Wi-Fi and cellular and requiring a separate hub to transmit the sensor data from the location to your SoniCloud instance.

The S-Series is ideal for applications in which many sensors are required in a single environment – e.g., patient refrigerators in a hospital or racks in a sprawling warehouse.

Key Features:

- Plug-and-Play installation with two-sided tape
- No power restrictions: battery-powered flexibility
- Wide temperature range: from cold chain to ambient
- Instant hub connectivity: no sensor configuration
- No time-constraints: can be stocked for months
- Available with or without NIST certification

Applications:

- Cold chain & warehouse
- Pharmacy distribution: truck-based
- Retail cafeteria/convenience store
- K-12 nutrition & cafeterias
- Law enforcement evidence rooms and cold storage
- Breweries and restaurants



Specifications

Wireless Transmission

Technology	LoRaWAN®
Transmission Power	22dBm
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

Measurement

Leakage Detection

Liquid Type	Conducting liquid
Trigger Condition	When liquid level reaches 5mm
Cable Length	1.5m (Customizable)
Resolution	0.1°C

Temperature

Range	-30°C to +70°C
Accuracy	0°C to +70°C (+/- 0.3°C), -30°C to 0°C (+/- 0.6°C)
Resolution	0.1°C

Humidity

Range	0% to 100% RH
Accuracy	10% to 90% RH (+/- 3%), below 10% and above 90% RH (+/- 5%)
Resolution	0.5% RH

Operation

Power On & Off	NFC, Power Button (Internal)
Configuration	NFC Configuration via Mobile App

Physical Characteristics

Power Supply	1 × 4000 mAh ER18505 Li-SOCL2 Battery (extendable to 2 batteries)
Battery Life	10 years (10 min interval + 24 triggers per day)
Operating Temperature	-30°C to +70°C
Relative Humidity	0% to 100% (non-condensing)
Ingress Protection	IP67
Dimension	105.6 × 85.3 × 27 mm (4.16 × 3.36 × 1.06 in)
Installation	Wall Mounting

Approvals

Regulatory	CE, FCC
Environmental	RoHS

WATER ROPE – LEAK DETECTOR



The Water Rope & Leak Detector is a compact spot leakage detection sensor for detecting presence of water (or other liquids) that communicates via the proprietary SoniLink hub.

With this low-power consumption leak detector, the battery will provide 5 years of service. When paired with the SoniLink communicating hub and SoniCloud application, users can manage all sensor data remotely, and receive alarms via the mobile app.

It also integrates temperature and humidity sensors, which has a great use for applications such as pipe leakage monitoring, basement flooding, and pump failure, among others.

Features

- Sensors seamlessly link to SoniLink Hubs, creating a comprehensive leak detection network – connect hundreds of sensors to a single hub, monitor large areas easily
- Our proprietary LoRaWAN[®] technology, SoniLink, ensures secure and reliable wireless connectivity. Experience real-time monitoring with range or efficiency
- Compact in size and entirely wireless, installation is a breeze
- IP67 waterproof enclosure for harsh environment applications
- Embedded with a buzzer for real-time alarming
- Equipped with NFC for easy configuration
- Instantly compatible with AWS Cloud-based SoniCloud Monitoring
- Tailored alerts and alarms via phone call, text, email and push notification
- 5 years of battery life

Specifications

Wireless Transmission

Technology	LoRaWAN®
Tx Power	16dBm (868 MHz) / 20dBm (915 MHz) / 19dBm (470 MHz)
Sensitivity	-137dBm @300bps
Mode	OTAA/ABP Class A

Leakage Detection

Liquid Type	Conductive Liquid
Trigger Condition	Once Liquid Level Reaches 0.5mm

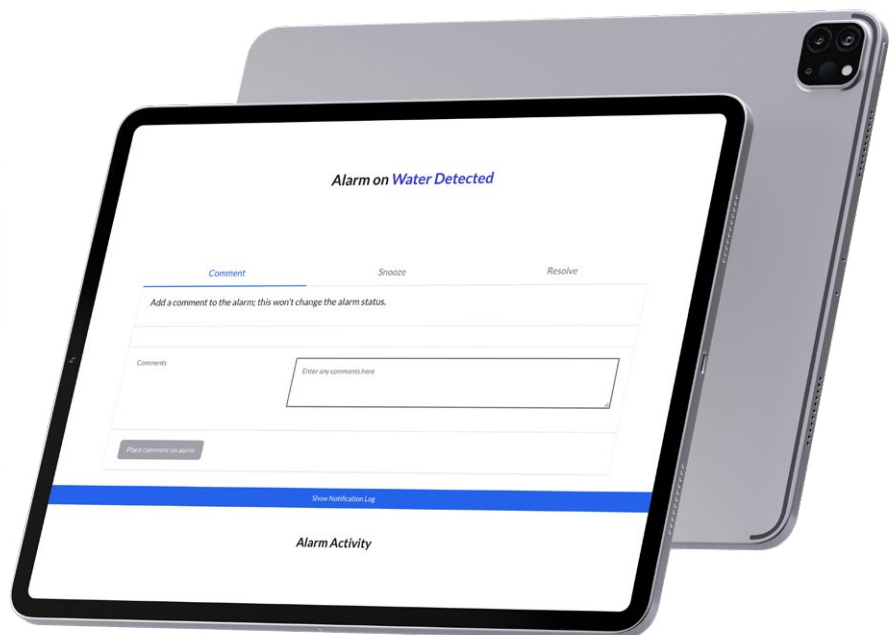
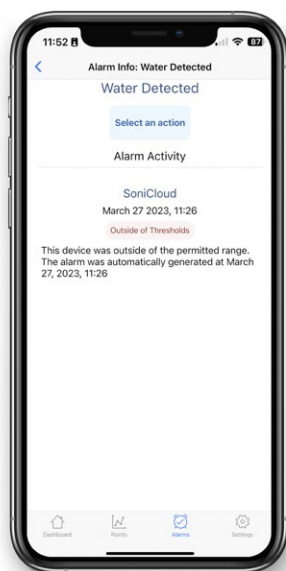
Others

Buzzer	Support
Configuration	NFC Configuration via Mobile App

Physical Characteristics

Power Supply	1 × 590mAh CR2450 Lithium Battery
Battery Life*	5 years (One hour leakage per week, 25°C)
Operating Temperature	-10°C to +60°C
Relative Humidity	0% to 100% (non-condensing)
Material & Color	ABS+PC, White
Ingress Protection	IP67
Dimension	63 × 63 × 14 mm
Installation	3M Tape Mounting, Desktop

* Tested under laboratory conditions and for guideline purposes only.



WIRELESS LEAK DETECTOR



This simple and affordable wireless leak detection sensor delivers real-time alerting for water (or other fluids) leaks using SoniLink technology.

With this low-power technology, the sensor can transmit for up to 5 years on its battery.

The sensor can directly link with other Sonicu sensors and probes to capture leak detection data and effectively prevent unnecessary loss while also collecting mission-critical data throughout a facility.

The wireless sensor can be applied in hospitals, laboratories, schools and virtually any other facility.

Features

- Sensors seamlessly link to SoniLink Hubs, creating a comprehensive leak detection network - connect hundreds of sensors to a single hub, monitor large areas easily
- Our proprietary LoRaWAN technology, SoniLink, ensures secure and reliable wireless connectivity. Experience real-time monitoring with range or efficiency
- Compact in size and entirely wireless, installation is a breeze
- IP67 waterproof enclosure for harsh environment applications
- Embedded with a buzzer for real-time alarming
- Equipped with NFC for easy configuration
- Instantly compatible with AWS Cloud-based SoniCloud Monitoring
- Quick and easy management with SoniCloud solution
- Tailored alerts and alarms via phone call, text, email and push notification
- 5 years of battery life

DOOR CONTACT SENSOR



The wireless Door Contact Sensor alerts you when someone enters the office/building through door/window or when a fridge/freezer door is open.

Compact and easy to install, the wireless sensor can be easily mounted on doors, panes, or cabinets, providing applications for virtually any location.

A low-power consumption sensor, this door contact application works 5 years on a single battery.

Compatible with the SoniLink gateway and the SoniCloud application, it will monitor the real-time open/close status and alarm via the mobile app.

Features

- Sensors seamlessly link to SoniLink Hubs, creating a comprehensive monitoring network - connect hundreds of sensors to a single hub, monitor large areas easily
- Our proprietary LoRaWAN® technology, SoniLink, ensures secure and reliable wireless connectivity. Experience real-time monitoring with range and efficiency
- Compact in size and entirely wireless, installation is a breeze
- Embedded with a buzzer for real-time alarming
- Equipped with NFC for easy deployment and configuration
- Instantly compatible with AWS Cloud-based SoniCloud Monitoring
- Tailored alerts and alarms via phone call, text, email and push notification
- 5 years of battery life

S-SERIES PRODUCT MATRIX

	Measures	Installation	Configuration	Power
Temperature and Humidity	Temperature and Humidity	Command Hook + ZipTie	NFC: Near Field Communication	Battery Only
Occupancy Sensor	People in a room	Mounted on a ceiling by installation team	No app configuration at this time	AC USB-C power required
Door Contact Sensor	Status of a door (open vs. closed)	Command strips	NFC: Near Field Communication	Battery Only
Mini Leak Detector / Water Rope Leak Detector	“Water: Is it here? Or is it not here?” (Water Rope also has T/H built-in as option)	Placed on location (Mini Leak) Mounted via command (Rope)	NFC: Near Field Communication	Battery Only
Temperature, Humidity CO ₂ + Optional Display”	Temperature and Humidity and CO ₂ (ppm not %)	Command strips	NFC: Near Field Communication	Battery Only
Modbus (RTU) Sensor	Up to 32 points via Modbus RTU (not Modbus TCP)	Command strips	Windows PC w/USB-C (Sonicu only)	AC (USB-C)
High Range Temperature	Temperature, unbuffered	Wall / DIN Rail Mounting	NFC: Near Field Communication	AC (USB-C)
IAQ Sensor	Temperature, Humidity, CO ₂ Light, TVOC, Barometric Pressure, PM2.5, PM10, PIR	Command strips; screws	NFC: Near Field Communication	Battery



Physical Characteristics

Power Supply	5VDC / 1.5A by Type-C Port
Power Consumption	3.5W
Operating Temperature	-5°C ~ +55°C
Storage Temperature	-20°C ~ +60°C
Relative Humidity	0 ~ 95% (Non-condensing)
Dimension	85 × 85 × 20 mm (3.35 × 3.35 × 0.79 in)
Installation	Ceiling Mounting

Approvals

Regulatory	CE, FCC, RoHS
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Installation Height

To better utilize the advantage of AI algorithm, it's recommended to follow the below installation heights:

OBJECT	HEIGHT	NOTE
Sitting object	>2.5 m (8.2ft)	Commonly used for region people counting
Standing object	> 3 m (9.8ft) (the optimum height is 3m)	Commonly used for line cross counting

It's recommended to refer to below detection ranges² for people counting at different heights for accurate recognition:

Installation Height (m)	Detection Range (m ²)
2.5	3.0 × 4.0
3.0	4.4 × 5.7
3.5	4.9 × 6.4
4.0	5.6 × 7.4

For high ceiling mount version, the detection ranges are as below:

Installation Height (m)	Detection Range (m ²)
5.0	3.5 × 10.0
6.0	4.5 × 12.0
7.0	5.5 × 14.0

¹ Tested under the recommended detection range.

² The actual detection range may vary based on the height of the target individual.

GLYCOL-BUFFERED TEMPERATURE SENSOR

Sonicu offers the ideal solution for maintaining **precise temperature control in cold storage** applications, particularly in medical freezers and refrigerators.

With our advanced **Glycol-buffered Temperature Sensor**, we ensure that the temperature remains consistent and within the required range.

This technology is specifically designed to meet the stringent demands of storing:

- Vaccines
- Medications
- Biological materials
- Tissues

The **Glycol-buffered sensor offers exceptional accuracy and stability** in monitoring cold storage environments and acts as a reliable buffer, minimizing temperature fluctuations and providing a more consistent reading.

*Includes NIST Calibration Certificate

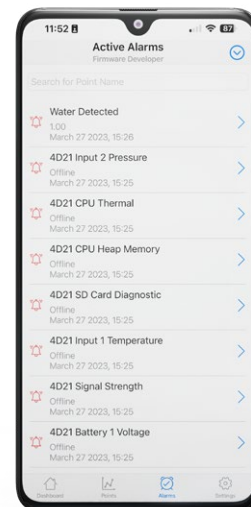


KEY SPECIFICATIONS

- Temperature Range: -55°C to $+30^{\circ}\text{C}$ / -67°F to 86°F
- Accuracy $\pm 0.5^{\circ}\text{C}$
- Plug-and-play installation and calibration

FEATURES

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription
- Built on AWS Web Services for max security and reliability



-80°C FREEZER, ULTRA-LOW TEMPERATURE, LN2 SENSOR

Achieve precise temperature monitoring even in extreme cold environments with our advanced sensor designed for -80°C or cryogenic freezers.

Sonicu's -80°C ULT, LN2 Sensor is ideal for accurately sensing the top level of LN2 dewars, making it a valuable tool for medical labs, research facilities, and flash-freezing applications.

Your valuable samples, specimens, and research materials are maintained at optimal temperatures, safeguarding the integrity of your critical assets.

*Includes NIST Calibration Certificate



MONITORING SPECIFICATIONS

- Temperature Range: -205° to 150°C / -337°F to 302°F (ultra-low)
- Accuracy: +/- 0.5° C
- (Cryogenic also available)

We help you keep and maintain you precious assets at optimal conditions for their efficacy and longevity.

FEATURES

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription



NON-BUFFERED TEMPERATURE SENSOR

Sonicu's **Non-Buffered Temperature Sensor** provides precise temperature measurement and control.

Ideal for:

- Ambient temp
- Food warmers
- Incubators

Ensure your assets are preserved at the desired temperature, meeting the specific requirements of healthcare, food service, and laboratory settings.

Our sensor is engineered to deliver accurate temperature readings without the need for additional thermal protection.



MONITORING SPECIFICATIONS

- Temperature Range: -55°C to $+125^{\circ}\text{C}$ / -67°F to 257°F
- Accuracy $\pm 0.5^{\circ}\text{C}$

FEATURES

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription



Incubator



Food Warmer

MONITORING KITS

TEMPERATURE

Single Glycol Temperature Monitoring Kits

Monitor a single fridge or freezer and protect vaccines, medications, research or food. Installs and configures in under an hour.

Kit Includes: SoniShield Duo, digital glycol sensor (with NIST Certificate), 5V DC power supply, 6ft sensor cable



Dual Glycol Temperature Monitoring Kits

Monitor a combination fridge or freezer to protect food, research, medications, or vaccines with only a single communicating meter. Installs and configures in about an hour.

Kit Includes: SoniShield Duo, 2 digital glycol sensors (with NIST Certificates), 5V DC power supply, 6ft and 15ft sensor cable.



VACCINE

Single Vaccine Monitoring Kits

Automate regulatory compliance with our simple temperature monitoring designed to protect vaccines. Installs and configures in under an hour.

Kit Includes: SoniShield Duo, SoniShield display, single sensor, power adapter, and 6ft extension cable



"The mobile app installation (wizard) piece made it really easy to follow step by step and your team was great to work with to get the system set up the way we wanted."



Luke Herbert,
Director of Pharmacy

TEMPERATURE MONITORING KITS

Single Non-Buffered Temperature Monitoring Kits

This kit monitors either warm or cold temperatures where a buffer medium is not required.

Kit Includes: SoniShield Duo Meter, digital sensor (with NIST Certificate), 5V DC power supply, 6ft sensor cable.



Dual Non-Buffered Temperature Monitoring Kits

This kit monitors either warm or cold temperatures for two, adjacent devices where a buffer medium is not required.

Kit Includes: SoniShield Duo Meter, 2 digital non-buffered sensors (with NIST Certificates), 5V DC power supply, 6ft and 15ft sensor cables.



Single Ultra-Low Temperature Monitoring Kits

Kit monitors one ULT -80°C for cryogenic freezer. Not intended to submerge sensor in LN₂.

Kit Includes: SoniShield Duo Meter, digital ULT sensor (with NIST Certificate), 5V DC power supply, 6ft sensor extension cable.



Dual Ultra-Low Temperature Monitoring Kits

Kit monitors two, adjacent ULT -80°C , or cryogenic freezers. Not intended to submerge sensor in LN₂.

Kit Includes: SoniShield Duo Meter, 2 digital ULT sensors (with NIST Certificates), 5V DC power supply, 6ft and 15ft sensor extension cables.



WARM-BUFFERED SENSOR

We have the ideal solution for a variety of applications in warm environments.

From warming ovens to incubators and blanket warmers, the Warm-Buffered Sensor provides accurate and reliable temperature monitoring in medical, research, and industrial settings.

We help you optimize your processes, improve product quality and ensure compliance with regulatory requirements.

*Includes NIST Calibration Certificate

FEATURES

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription

MONITORING SPECIFICATIONS

- Temperature Range
- Up to 105°C / 221°F
- Accuracy
- +/- 0.5° C



Enables you to maintain the desired temperature levels in warm environments, providing you with peace of mind and allowing you to focus on your work with confidence.



Simple & Scalable Application



Hancock Regional Health: Consolidate Enterprise Monitoring



WHY SONICU TEMPERATURE MONITORING

Leverage real-time and historical temperature data for powerful asset protection. Sold in kits with Duo communicating meter, power adapter, and SoniCloud subscription.

KEY FEATURES

- Alerts via text, email, push, and phone call
- Automated compliance reports for instant audit readiness
- Redundancy for power and data: Duo features backup battery and power for network or electric outage
- Flexible data transmission across Wi-Fi, cellular, and LoRaWAN
- All hardware under warranty during subscription period
- U.S.-based live phone support and free, unlimited training

APPLICATIONS:

- Healthcare settings including hospitals, surgery centers, clinics
- Pharmacies including compounding and remote locations
- Warehouses and cold chain distribution centers
- Police evidence rooms for cold storage and ambient monitoring
- K-12 student nutrition
- Retail cafeteria and convenience stores
- Hotels and hospitality

TECHNICAL SPECIFICATIONS:

- Links to each data sheet on the Sonicu website:
 - ULT & Cryo
 - Buffered and Glycol-Buffered
 - Non-Buffered
 - Warm/High Heat



AMBIENT TEMPERATURE & HUMIDITY SENSOR

A versatile and efficient solution, designed to monitor and maintain optimal conditions in various environments.

Whether it's a clean room, operating room, laboratory, compounding pharmacy, warehouse, or any other critical space, our plug-and-play ambient conditions sensor provides comprehensive monitoring of temperature and humidity.

Sonicu's Ambient Temperature & Humidity Sensor delivers accurate and reliable measurements so you can promptly identify any deviations in temperature and/or humidity, and prevent product degradation and compromised processes.

*Includes NIST Calibration Certificate and eligible for SNAP automation calibration program.



MONITORING SPECIFICATIONS

	RANGE	ACCURACY
TEMPERATURE	-10°C to +80°C/ 4°F to +176°F	+/-0.4°C
HUMIDITY	0 - 100% RH	+/-3% RH

FEATURES: Why Customers Rely on Sonicu Monitoring

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription



ADDITIONAL MONITORING KITS

Ambient Temperature and Humidity Monitoring Kits

Monitors ambient room temperature and humidity levels 24/7.

Kit Includes: SoniShield Duo Meter, digital temperature & humidity sensor (with NIST Certificate), 5V DC power supply, 6ft sensor cable.



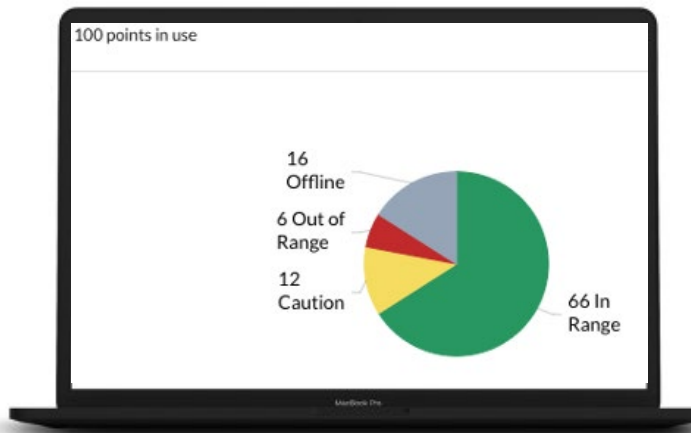
Dual Monitoring Kit

Monitors ambient room temperature and humidity levels and a single refrigerator or freezer 24/7.

Kit Includes: SoniShield Duo Meter, digital temperature & humidity sensor (with NIST Certificate), digital glycol sensor, 5V DC power supply, 6ft and 15ft sensor extension cables.



Connect, Detect & Protect



Delray Beach Wellness Center	
Delray Beach Hum 45.4 %RH	Delray Beach Temp 71.8 °F
Deltona Wellness Center	
Deltona Hum 51.9 %RH	Deltona Temp 67.0 °F

WHY SONICU AMBIENT ROOM CONDITIONS MONITORING

View real-time and historical room condition data for powerful asset protection. Sold in kits with Duo communicating meter, power adapter, and SoniCloud subscription.

KEY FEATURES

- Alerts via text, email, push, and phone call
- Automated compliance reports for instant audit readiness
- Redundancy for power and data: Duo features backup battery and power for network or electric outage
- Flexible data transmission across Wi-Fi, cellular, and LoRaWAN
- All hardware under warranty during subscription period
- U.S.-based live phone support and free, unlimited training

APPLICATIONS:

- Healthcare including hospitals, surgery centers, clinics
- Pharmacies including compounding and remote locations
- Warehouses and cold chain distribution centers
- Police evidence room ambient monitoring
- K-12 for hvac performance
- Manufacturing and warehouse for heat stress monitoring
- Food processing
- Pharmaceutical manufacturing
- Museums and archives
- Indoor agriculture and greenhouses

Group	Total	#	%	Avg Time	Resolved			Snoozed			Active		
					#	%	Avg Age	#	%	Avg Age	#	%	Avg Age
default (new users)	0	0	-	-	0	-	-	0	-	-	0	-	-
Pharmacy	7	7	100%	0.9 Hrs	0	-	-	0	-	-	0	-	-
ROC Hematology/Oncology Clinic	3	3	100%	1.3 Hrs	0	-	-	0	-	-	0	-	-
IDS	1	1	100%	1.6 Hrs	0	-	-	0	-	-	0	-	-
Lifeline	0	0	-	-	0	-	-	0	-	-	0	-	-
Retail Pharmacy	0	0	-	-	0	-	-	0	-	-	0	-	-
IU Edu	0	0	-	-	0	-	-	0	-	-	0	-	-
PH4 2nd Floor Pulmonary	1	1	100%	0.9 Hrs	0	-	-	0	-	-	0	-	-
Infectious Disease	0	0	-	-	0	-	-	0	-	-	0	-	-
POC	0	0	-	-	0	-	-	0	-	-	0	-	-
VFC	1	1	100%	0.9 Hrs	0	-	-	0	-	-	0	-	-
Dietary	90	90	100%	1.0 Hrs	0	-	-	0	-	-	0	-	-
NICU	14	14	100%	1.2 Hrs	0	-	-	0	-	-	0	-	-
Child Protection	0	0	-	-	0	-	-	0	-	-	0	-	-
7.Ph5.R7465 Soiled Utility Fri	0	0	-	-	0	-	-	0	-	-	0	-	-
3.RI.Ph5.E3461 Med Fridge	0	0	-	-	0	-	-	0	-	-	0	-	-
NICU Sound	26	26	100%	1.5 Hrs	0	-	-	0	-	-	0	-	-
Facilities	505	505	100%	1.0 Hrs	0	-	-	0	-	-	0	-	-
Milk lab	40	40	100%	0.8 Hrs	0	-	-	0	-	-	0	-	-

AIR PRESSURE DIFFERENTIAL SENSOR

A comprehensive solution used to monitor air pressure between rooms to maintain a safe environment.

Our Air Pressure Differential Sensor ensures that the air pressure is consistently maintained within specific ranges, preventing the spread of contaminants and infections.

By ensuring proper air pressure differentials, organizations can enhance safety, comply with regulations, and protect the well-being of patients, employees, and products.

*Includes NIST Calibration Certificate

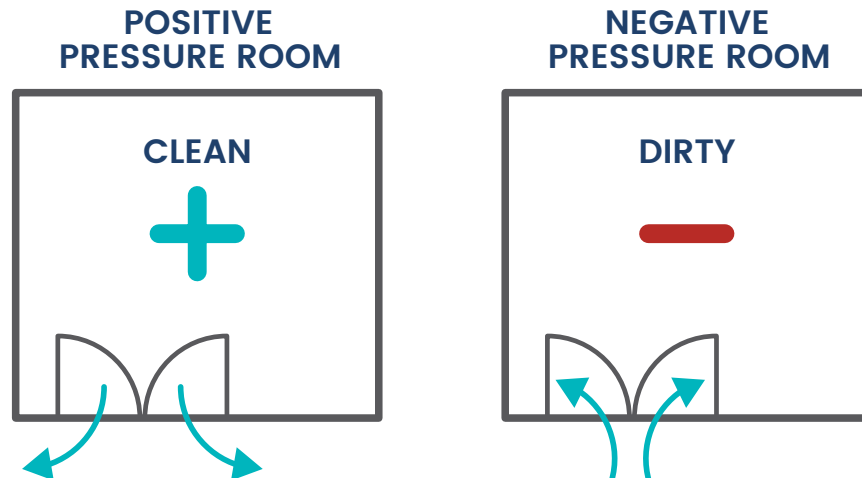


MONITORING SPECIFICATIONS

- Temperature Range
- +/- 4 in water column
- Accuracy
- +/- .25%

KEY FEATURES & BENEFITS

- Real-time alerts and notifications
- Automated compliance reporting system
- Simple mobile app configuration, accessibility and monitoring
- U.S.-based phone support
- Lifetime warranty with software subscription





Life Science / Healthcare

INFECTION PREVENTION & CONTROL:

Managing the Hospital-Acquired Infection Threat

Negative pressure rooms:

These rooms have lower air pressure than the surrounding areas. This creates a "vacuum" that helps to prevent airborne pathogens from escaping the room. Negative pressure rooms are typically used for patients with highly contagious diseases.

Positive pressure rooms:

These rooms have higher air pressure than the surrounding areas. This helps to prevent outside air from entering the room and bringing in potentially harmful pathogens. Positive pressure rooms are typically used for patients who are immunocompromised or who have undergone surgery.



WHY SONICU AIR PRESSURE DIFFERENTIAL MONITORING

View real-time and historical room condition data for powerful asset protection. Sold in kits with Duo communicating meter as well as power adapter and SoniCloud subscription. Leave the bunny suit in the locker and view your sensitive environments from anywhere with confidence and convenience.

KEY FEATURES

- Alerts via text, email, push, and phone call
- Automated compliance reports for instant audit readiness
- Redundancy for power and data:
 - Duo features backup battery and power for network or electric outage
- Flexible data transmission across Wi-Fi, cellular, and LoRaWAN
- All hardware under warranty during subscription period
- U.S.-based live phone support and free, unlimited training

APPLICATIONS:

- Healthcare settings including hospitals, surgery centers, clinics
- Clean rooms
- Pharmacies including compounding and remote locations
- Pharmaceutical manufacturing
- Semiconductor fabrication
- Advanced manufacturing
- Stairwells & elevator shafts

APPLICATIONS & INDUSTRIES



Healthcare



Food Service



Research/
Laboratories



Industrial/
Manufacturing



K-12



Sonicu provides access, alarming and archiving 24/7/365 via any internet-enabled device.

LIFE SCIENCE AND LABORATORIES

Research is hard, costly, and time-intensive. You need a monitoring solution that is simple to install and leverage as well as affordable and easy to scale and train your team on.

Sonicu is trusted by scores of research professionals for their comprehensive monitoring needs. From ULT and cryo to clean room environmental monitoring and even incubator monitoring, Sonicu delivers simple and affordable monitoring solutions required to satisfy the FDA and other regulatory agencies as well as protect your precious assets.

When combined with our ability to tap into existing monitoring solutions with our universal adapter, Sonicu can deliver a robust and flexible monitoring platform tailored to your needs and flexible to grow with your lab and team.

Trusted by some of the finest names in higher education and private research to automate compliance and protect assets.



INCUBATOR MONITORING SOLUTION

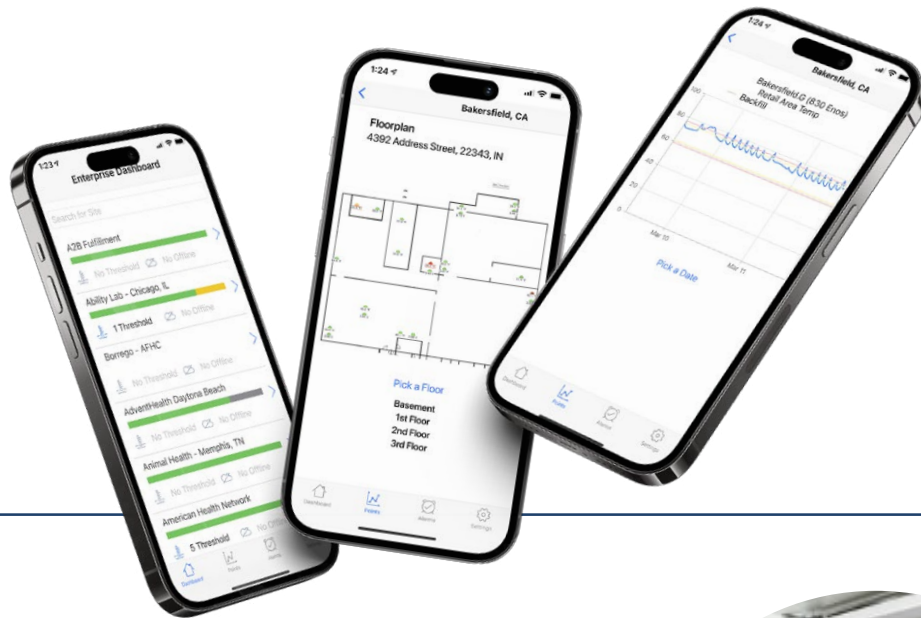
Affordable and simple laboratory and life science environmental monitoring with affordable sensors to monitor more critical conditions.

The Sonicu incubator monitoring sensor plugs seamlessly into the already robust monitoring system that includes temperature and air pressure differential monitoring.

The incubator monitoring solution includes temperature, humidity, and CO₂ making it the ideal, cost-effective platform for life science professionals.



Sonicu incubator monitoring sensor



FEATURES

- Plug-and-play Installation
- Simple mobile app configuration and monitoring
- Phone call alerts + text and email alarms
- U.S.-based phone support
- Lifetime warranty with software subscription



LABORATORY MONITORING KITS

Incubator Monitoring Kits

The incubator monitoring solution includes temperature, humidity and CO₂. Ideal, cost-effective platform for life science professionals.

Kit Includes: SoniShield Duo, SoniLink Incubator sensor (with NIST Certificate), 5V DC power supply, 6ft sensor cable



Dual Incubator Monitoring Kits

The dual incubator monitoring solution includes two independent sensors for monitoring temperature, humidity, and CO₂. Ideal for monitoring two side-by-side or stacked incubators.

Kit Includes: SoniShield Duo, 2 Incubator sensors (with NIST Certificates), 5V DC power supply, 6ft and 15ft sensor cable.



WHY SONICU INCUBATOR MONITORING

View real-time and historical incubator data for powerful asset protection. Sold in kits with Duo communicating meter, power adapter, and SoniCloud subscription. Conduct research with confidence and view your incubator conditions conveniently from anywhere. Connect your monitoring devices to stay connected to your research.

KEY FEATURES

- Alerts via text, email, push, and phone call
- Automated compliance reports for instant audit readiness
- Redundancy for power and data:
 - Duo features backup battery and power for network or electric outage
- Flexible data transmission across Wi-Fi, cellular, and LoRaWAN
- All hardware under warranty during subscription period
- U.S.-based live phone support and free, unlimited training

APPLICATIONS:

- Healthcare settings including hospitals, surgery centers, clinics
- Clean rooms
- Pharmacies including compounding and remote locations
- Pharmaceutical manufacturing
- Semiconductor fabrication
- Advanced manufacturing
- Stairwells & elevator shafts

APPLICATIONS & INDUSTRIES



Healthcare



Food Service



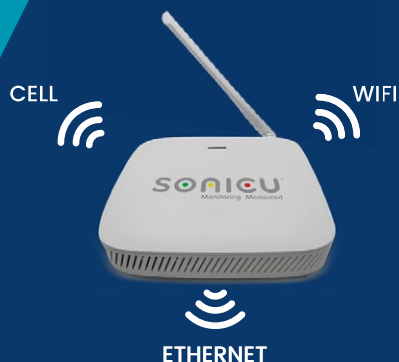
Research/
Laboratories



Industrial/
Manufacturing



K-12



Sonicu provides access, alarming and archiving 24/7/365 via any internet-enabled device.

EVERY KIT INCLUDES:

Turnkey Monitoring

SoniCloud – Software Access

All Sonicu monitoring solutions include SoniCloud, a modern, scalable monitoring platform that includes software and firmware updates, ensuring future compatibility and data storage.



SoniShield Duo

A powerful and easy-to-use monitor communication meter that wirelessly transmits critical sensor data to the SoniCloud platform for 24/7 automated monitoring, visibility, and regulatory compliance reporting.

Warm-Buffered Sensor

Use for measuring temperatures in warm environments.

Applications: Warming ovens, incubators, blanket warmers in medical, research, industrial, and more!



Power Adapter

Ensures reliable and continuous operations and that devices are able to capture and transmit data accurately.

WHY SONICU'S COMPREHENSIVE LABORATORY MONITORING KITS

Simple and affordable solutions ranging from ULT to cryo and including ambient conditions and air pressure differential. Coupled with the ability to virtually integrate any third-party sensor via a simple universal adapter, Sonicu offers an unbeatable value in terms of flexibility and affordability.

KEY FEATURES

- Alerts via text, email, push, and phone call
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APPLICATIONS:

- Clean and Isolation Rooms
- Compounding Pharmacies
- Private Labs
- Universities
- Research Centers

APPLICATIONS & INDUSTRIES



Healthcare



Food Service



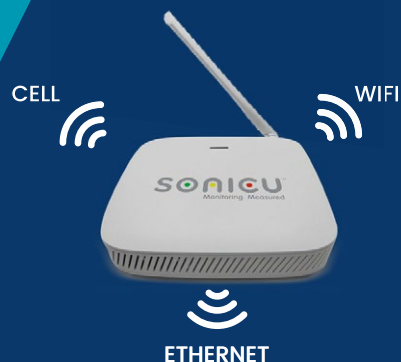
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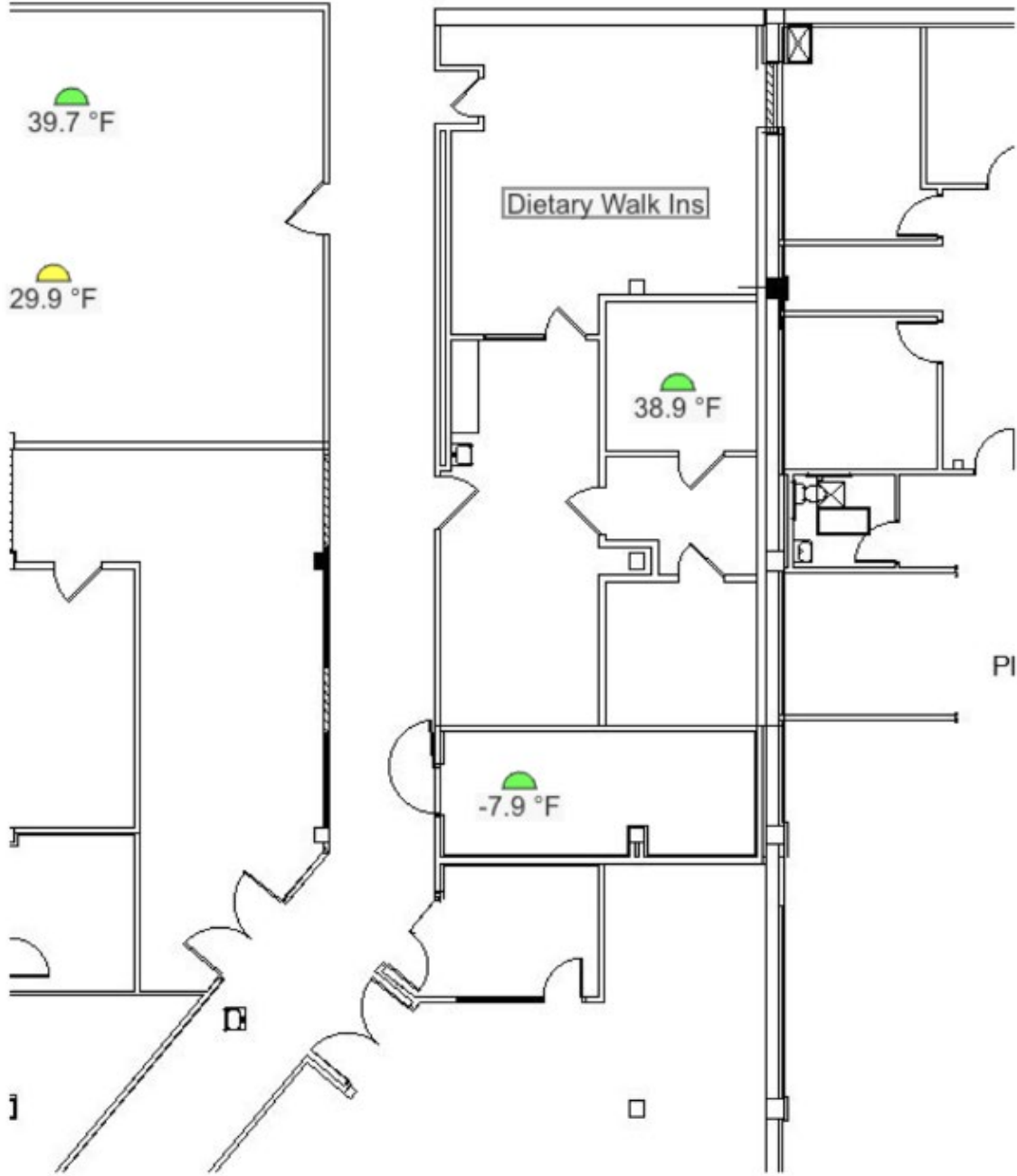


Software Application



K-12 Nutrition

STUDENT NUTRITION AND ANY CAFETERIA

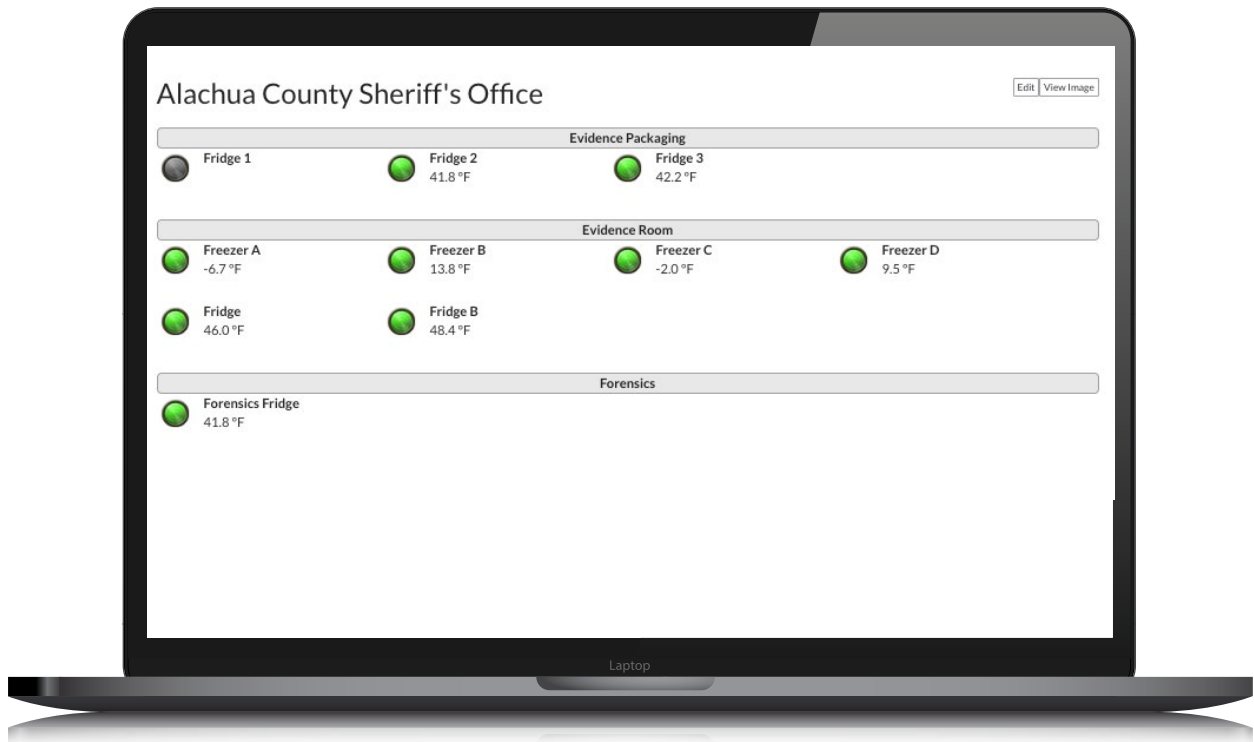




Law Enforcement

LAW ENFORCEMENT

Helping property management technicians ensure freezers, fridges and ambient conditions are protected against conditions that could threaten crucial evidence. A simple solution to help law enforcement improve the way it serves crime victims and their communities



APPLICATIONS & INDUSTRIES



Healthcare



Food Service



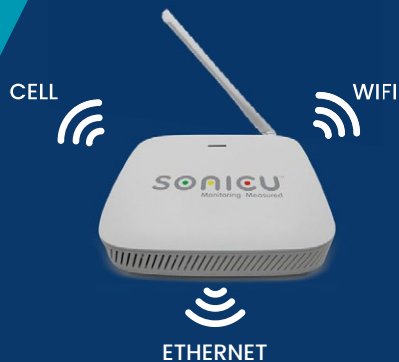
Research/
Laboratories



Industrial/
Manufacturing



K-12



Sonicu provides access, alarming and archiving 24/7/365 via any internet-enabled device.



Certificate of Traceability

The probes listed below were verified using NIST traceable reference probes, having calibration dates within one year of the test date. Probes are considered passing when the stabilized reading is within $\pm 0.5^{\circ}\text{C}$ of the reference in rice sized CO₂ particles.

Calibration

REMAINING COMPLIANT is a SNAP



View, download, or print calibration certificates online in PDF format instantly from any web browser.

Our SNAP Calibration program assures that your temperature and environmental monitoring sensors are accurate, properly calibrated, and meet regulatory compliance without the need for conventional recalibration.

This program is designed to provide our clients with minimal risk, loss, disruption, and non-compliance when one or more of our sensors are not working properly.

We will ensure that your sensors are accurate, properly calibrated, and meet regulatory compliance requirements.

This process is easy. Sonicu provides new sensors with NIST-traceable calibration certificates prior to your current expiration date. Sonicu will completely remove the old sensor and snap the new sensor into place, that's all!

What does the SNAP Calibration program deliver?

- Easy & cost effective way to maintain regulatory compliance without the hassle of conventional recalibration.
- Everything from alarming and protecting to logging and reporting depends on proper data from precise, properly calibrated sensors.
- Ensures your temperature sensors are accurate, properly-calibrated, and meet regulatory compliance.
- Sonicu adheres to strict quality controls and maintains ISO 17025 compliance.

How are you benefiting from our SNAP Calibration program?

- Remove administrative burden, uncertainty, and worry about required, recurring sensor calibration.
- Eliminate downtime associated with conventional recalibration.
- SNAP Calibration is far less expensive than traditional recalibration services.

WHY SNAP?

Double the Compliance Protection

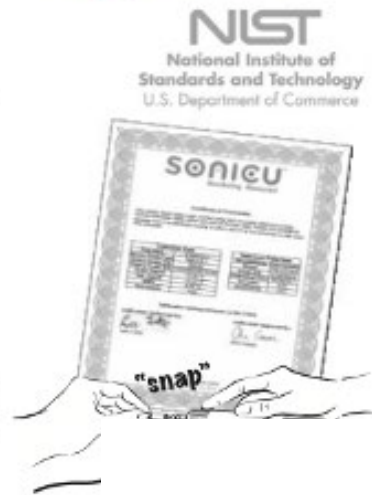
SNAP Sensor Calibration Program

SNAP Sensor Calibration Program

SNAP is a Sonicu-managed program that frees you from the burden of tracking sensor expiration dates

SNAP provides new sensor(s) with NIST traceable Calibration Certificates as downloadable pdf and includes shipping to your location, before sensor(s) expiration.

The SNAP program proactively tracks all sensor expiration dates, ensuring sensors are always accurate, properly calibrated, and regulatory compliant. Compliance is performed simply by removing the old sensor and snapping in the new one. Price is for each sensor.



APPLICATIONS & INDUSTRIES



Healthcare



Food Service



Research/
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Manufacturing



K-12



Sonicu provides access, alarming and archiving 24/7/365 via any internet-enabled device.

SIMPLE FEATURES TO connect and protect your facilities



Asset Protection – Sonicu Alarm Handler

- Buffers & Delays – Prevents Alarm Fatigue
- Snooze Alarming – Pause Alarms without Forgetting
- Escalation/Tiered Alarms – Advanced Asset Protection
- Customizable Notifications & Schedules – Notify Right People at Right Time
- Alarm Configuration Snapshot – Ensures Alarms are Enabled Correctly



Regulatory Compliant – Cold Chain and Room Conditions Applications

- Automated Data Logging & Reporting – Eliminates Manual Logging
- Alarm History – Documents Corrective Actions
- Data Sync – Onboard memory = No Data Gaps
- SNAP Calibration – Simplifies Ongoing NIST Calibration
- IQ/OQ Validation – Provides FDA Compliance
- 21 CFR Part 11 Compliance



Web-Based Dashboard + Mobile App (iOS, Android)

- Implementation Wizard – Streamlines Implementation
- Aggregated View of Multiple Locations – Full Visibility of Enterprise
- Roles/Privilege Based Access – Control Access
- Flexible Data Transmission Options
- SSO – Single Sign-On Simplicity



Plug-and-play
Installation



Simple mobile
app configuration
and monitoring



Phone call alerts
+ text & email
alarms



U.S.-based
phone support



Lifetime warranty
with software
subscription

12 ESSENTIAL SOFTWARE

features included with Sonicu



Alarms and notifications



Unlimited data storage (AWS)



Compatible with third-party sensors



21 CFR Part 11



Access on any smart device



Unlimited user access



Automated regulatory compliance reports



Backup and uptime guarantee



API for simple data sharing



BMS/BAS data sharing



Calibration Certificate



Customized dashboard

YOUR DATA:

Always ready, stored forever

Status Summary and Enterprise Dashboard

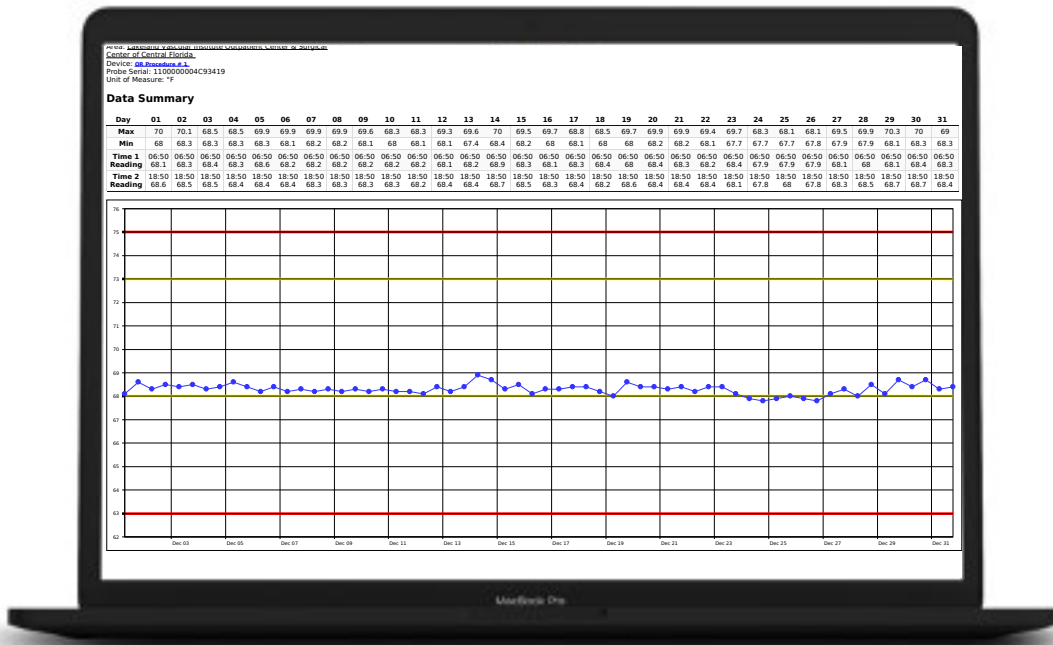


Compliance and Operational Reporting

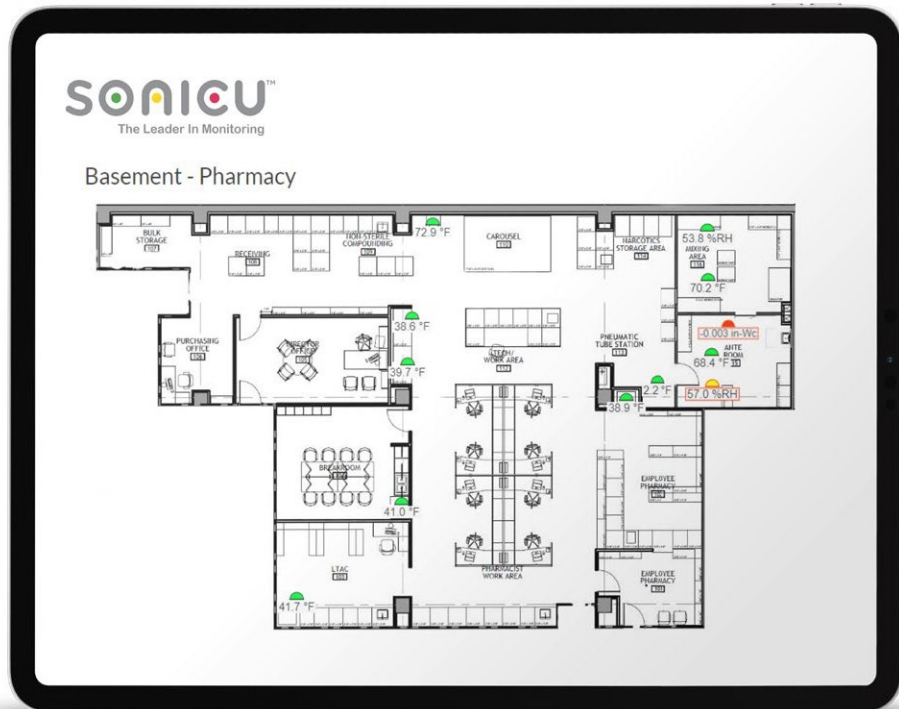


YOUR DATA: At your Fingertips

Excursion Report



Floor Plan



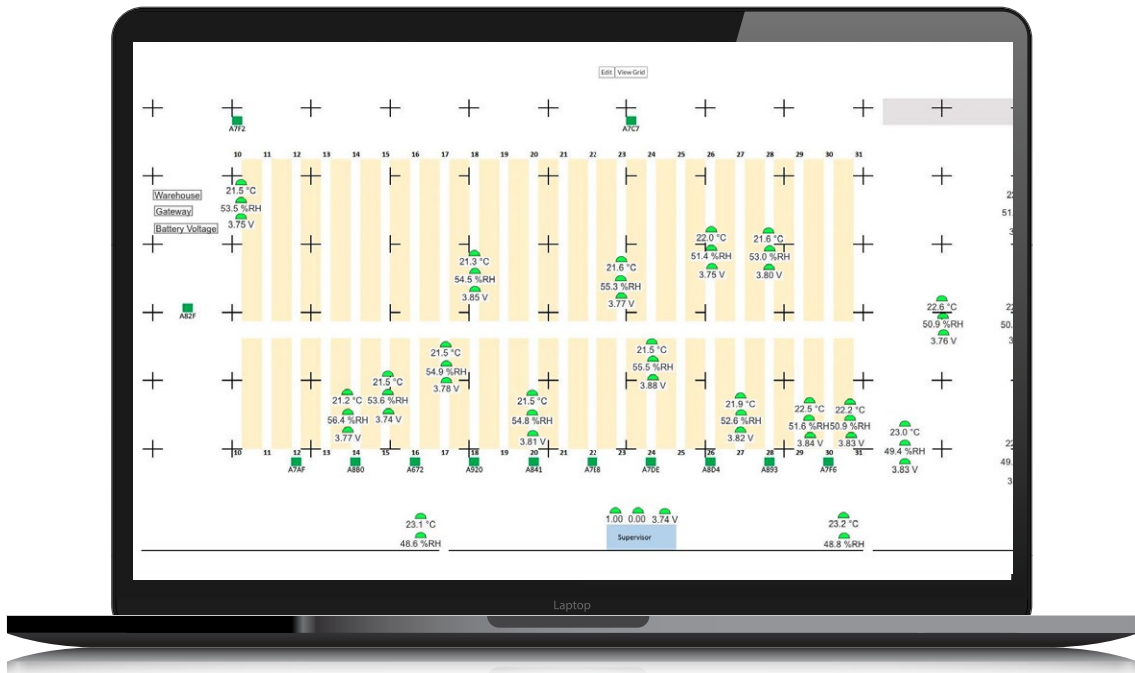
SIMPLE SOFTWARE TIERS TO FIT YOUR NEED

Sonicu Plans and Included Features	Essential	Pro	Premium
System			
Unlimited Data Storage via SoniCloud (AWS)	3 years	5 years	Unlimited
Unlimited Number of Users Allowed	Yes	Yes	Yes
Unlimited User Access to SoniCloud Academy	Yes	Yes	Yes
Mobile APP and Web Based	Yes	Yes	Yes
Flexible Networking (WiFi, 4G/5G LTE, and Ethernet)	Yes	Yes	Yes
Data Transmission at intervals	15m	5m	Unlimited
Dashboard View	Standard	Floorplan Enabled	Sonicu Support w/Setup
User Roles	View, Admin	View, Admin	Basic, View, Mgr, Admin

Alarming			
SMART Alarm Handler with Escalation	Yes	Yes	Yes
Alarm Notification Methods (Email, Push, Text, Phone)	Email + Push	All	All
Diagnostic Indicators (signal strength/battery level/AC Power)	Yes	Yes	Yes
Battery Level Alarms	Yes	Yes	Yes
Diagnostic Alarming	Adds Point(s)	Included	Included
Group Alarming	Yes	Yes	Yes
Test Alarms	NO	Yes	Yes
Instant Alarms	-	-	All
Custom Alarm Logic (ex. Door Alarms, Work Order Integration)	-	-	All

SEE YOUR CONDITIONS ACROSS YOUR FACILITY:

Smarter management tied to your BMS



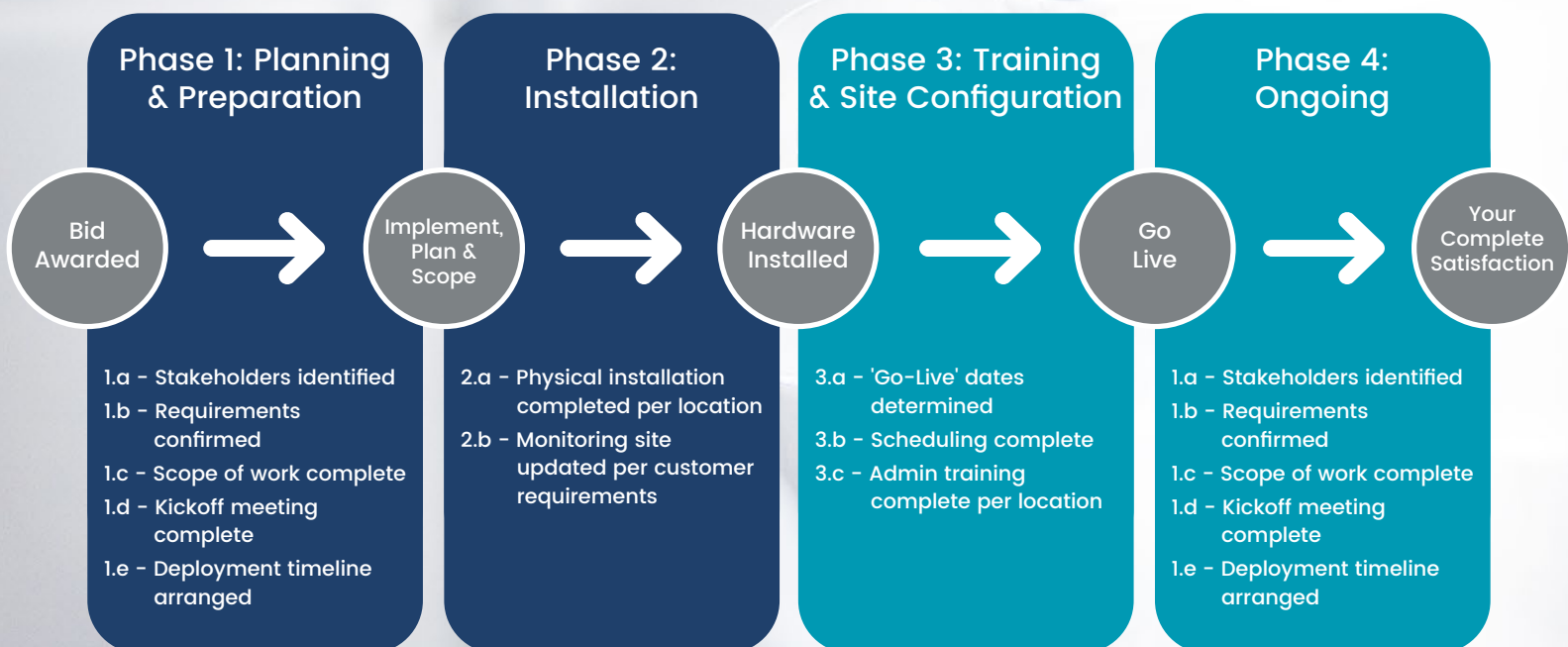
Your bird's-eye view on threats to your operations and revenue:
Available anywhere, anytime.

IMPLEMENTATION & CONFIGURATION





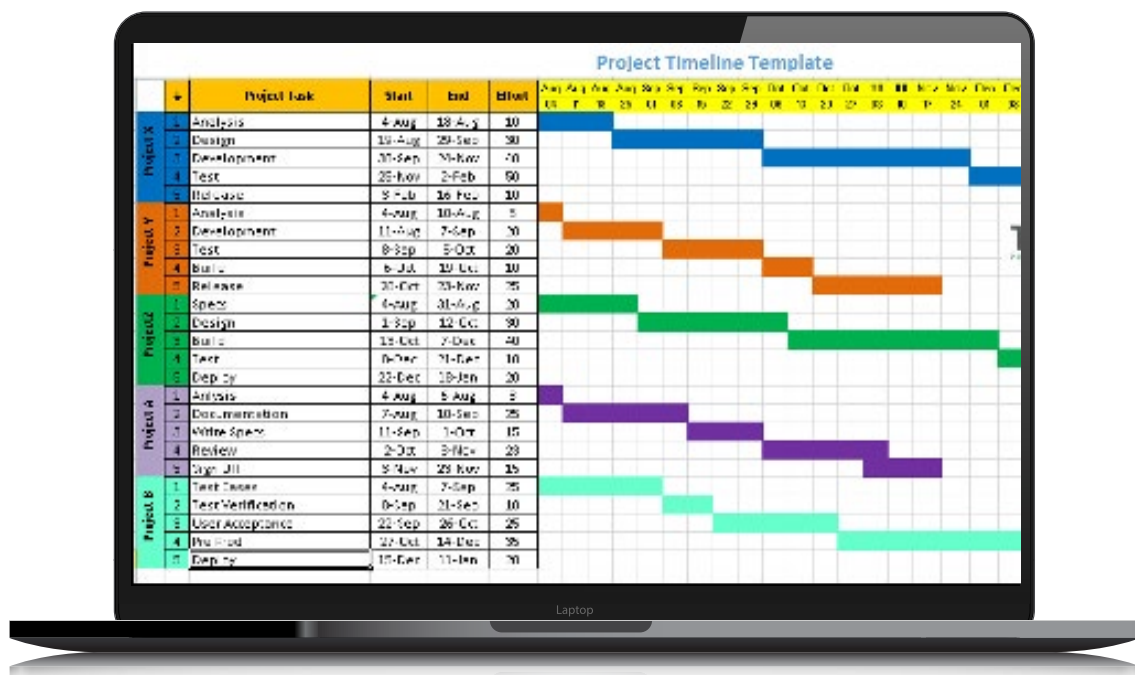
With decades of implementation experience, Sonicu will have your system fully operational within 4-8 weeks.



PHASE 1: PREPARATION

- Review & confirm all contractual requirements
- Create scope of work with all appropriate and relevant information
- Outline all software, training, and service requirements
- Create formal timeline for deployment and prepare hardware

2-3 weeks estimated for Phase 1 completion



PHASE 3: TRAINING AND SITE CONFIGURATION

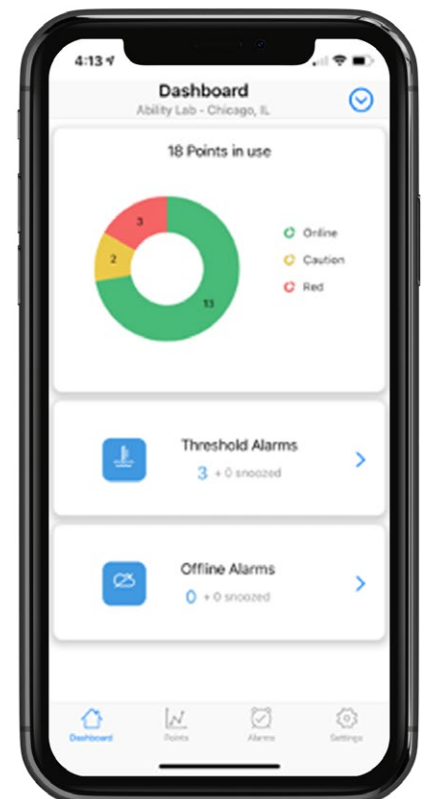
- Determine “Go-Live” date
- Schedule full training for administrators and View users
- Complete full training on SoniCloud functionality – instructor-led
- Classes held monthly; on demand training available
- Ongoing access to Sonicu Academy

1-2 weeks estimated for Phase 3 completion

Alarm Resolution Report
SONICU.COM

Generated 06/13 09:40:53

Group	Total	Resolved			Acknowledged			Active		
		#	%	Avg Time	#	%	Avg Age	#	%	Avg Age
default	49	47	96%	1.1 Hrs	2	4%	3 Day, 5 Hrs	0	-	-
UH Critical	34	33	97%	1.0 Hrs	1	3%	1 Day, 1 Hrs	0	-	-
UH Tissue Critical	0	0	-	-	0	-	-	0	-	-
Under Construction	11	10	91%	0.8 Hrs	1	9%	1 Day, 1 Hrs	0	-	-
IDS	7	7	100%	0.7 Hrs	0	-	-	0	-	-
Pharmacy Infusion	0	0	-	-	0	-	-	0	-	-
LAB	5	5	100%	1.5 Hrs	0	-	-	0	-	-



PHASE 4: ONGOING TRAINING AND SUPPORT

- Help desk - Normal business hours of operation
 - Sonicu University available 24/7
 - Our team performs health checks at 30/60/90 days and 6/9 months
 - Each enterprise account is assigned a dedicated account manager who can handle issues and coordinate additional training as needed
 - SNAP for NIST calibration compliance
-

“Sonicu gave us the ability to more easily put our head on the pillows and sleep easier at night knowing we had invested in a strong monitoring system.”

Dennis Marchesi, Laboratory Director, Xytex





Deployment and Configuration

PHASE 2: INSTALLATION

- Install Sonicu hardware
- Test all hardware and software functionality onsite
- Create login credentials and complete initial training with local administrators

Completion time for Phase 2 varies on size and complexity of installation and location

