WIRELESS

Data Logger Monitoring System



MadgeTech Wireless Monitoring System

The MadgeTech system accommodates a wide variety of industries and applications, and offers real-time, continuous monitoring, and configurable alarm notifications.

- Quick & Easy Setup
- Free Lifetime Support
- Text & Email Notifications
- Unlimited Scalability



Table of Contents

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 - Components
 - Overview
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 - Wireless Data Loggers
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 - MadgeTech 4 Data Logger Software
 - MadgeTech Cloud Services



Wireless System Components BUILDING YOUR DATA LOGGING SYSTEM Wireless Temperature and Humidity Data Logger Status 76.71°F 27.7%RH Alarn A MADGETEC MadgeNET MADGETECH RFC1000 Wireless RF Transceiver

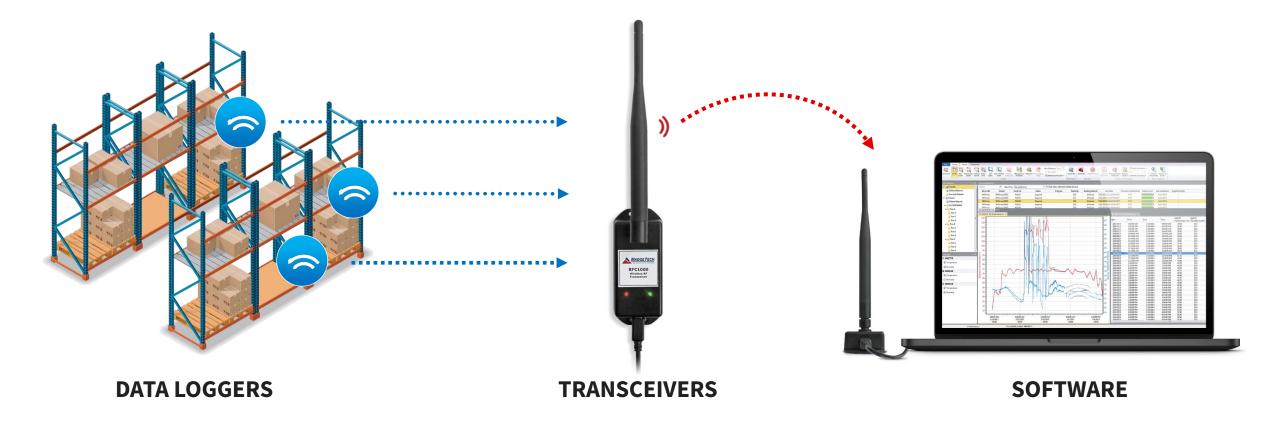
DATA LOGGER

TRANSCEIVER

SOFTWARE

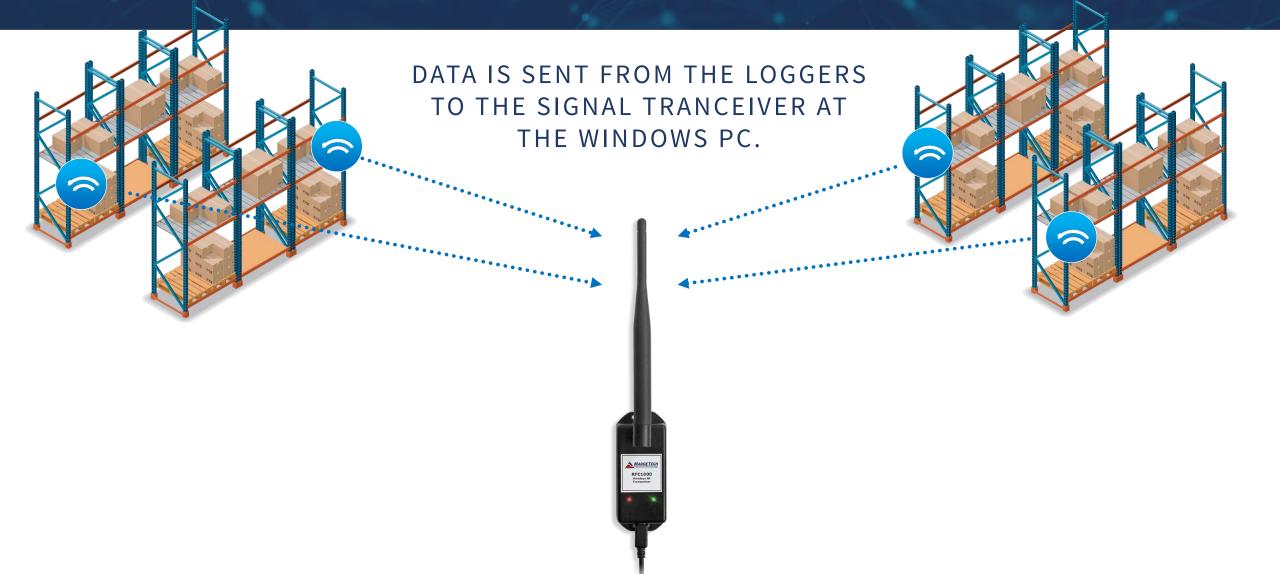
Wireless Network Overview

DATA LOGGER COMMUNICATION THROUGHOUT YOUR FACILITY



DATA LOGGERS ARE DEPLOYED THROUGHOUT THE FACILITY.

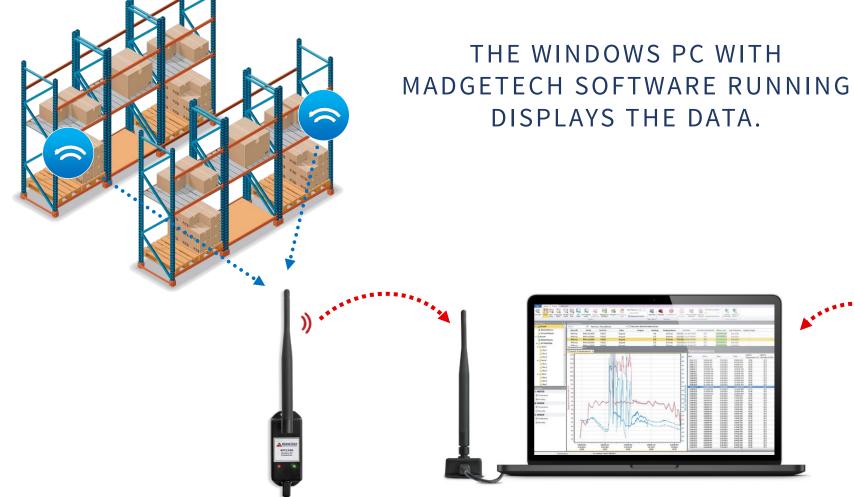
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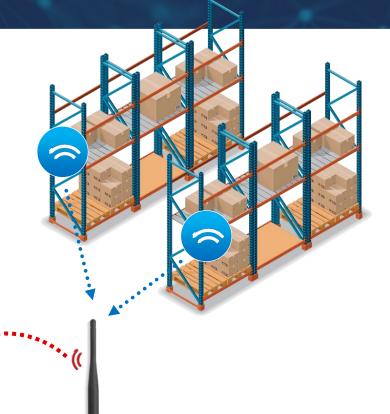


THE WINDOWS PC WITH

DISPLAYS THE DATA.

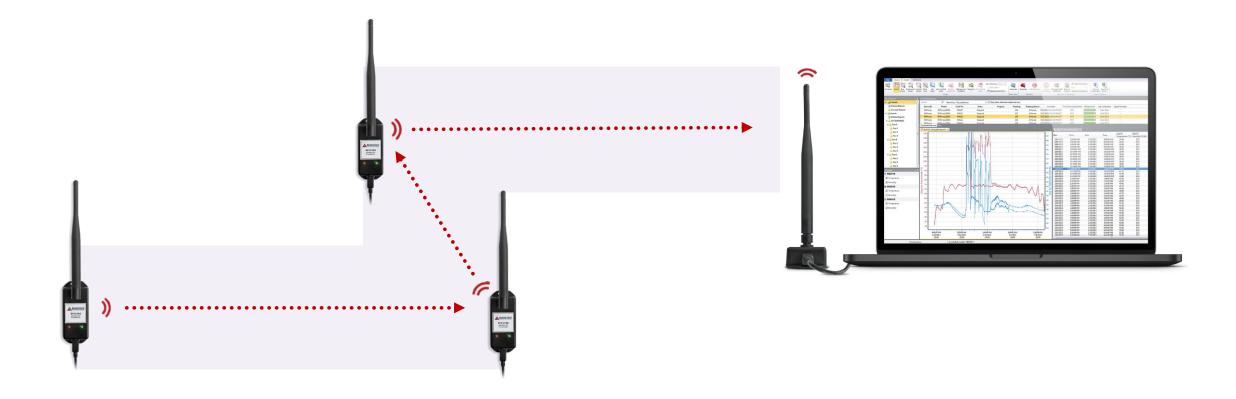






Avoiding Wireless Interference

SIGNAL RELAYS ARE USED TO OVERCOME OBSTACLES OR OBSTRUCTIONS UNITS ARE SIMPLY PLUGGED INTO ELECTRICAL OUTLETS IN THE DESIRED LOCATIONS





2000A Series

WIRELESS DATA LOGGERS

Ideal for real-time, continuous monitoring and offer configurable alarm notifications.

Data is transmitted in real-time to a central PC, or directly to the MadgeTech Cloud.

- Ambient TemperatureVoltage
- Remote Temperature
- Humidity
- Pressure

- Pulse
- Current
- Carbon Dioxide



2000A Series

WIRELESS DATA LOGGERS



RFTemp2000A Ambient Temperature



RFRHTemp2000A Humidity & Temperature



RFPRHTemp2000A Pressure, Humidity & Temperature



RFTCTemp2000A Thermocouple



RFRTDTemp2000A Precision RTD



RFVolt2000A Voltage



RFPulse2000A Pulse



RFCurrent2000A DC Current



RFCO2RHTemp2000A CO2, Humidity & Temperature



VTMS Vaccine Temperature Monitoring System



Element HT Humidity & Temperature



Element CO2 CO2, Humidity & Temperature

2000A Series Features

WIRELESS DATA LOGGERS



View Data in Real-Time \approx

Wireless Communication



32,256

Readings



Audible & LED Alarm Indicators



External Power Supply



LCD Screen

Text & Email Alarm Notifications

RFOT

WIRELESS DATA LOGGERS



Wireless Meat Temperature Data Logger

- Complete Meat Process Monitoring (Cooking, Cooling & Storage)
- Equipped with a Rugged Piercing Probe
- Operating Environment: -20 °C to +100 °C (-4 °F to 212 °F)
- Splash-Proof (IP67)



RFC1000

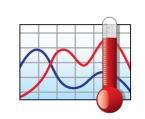
WIRELESS TRANSCEIVERS

Wireless Transceiver

- Long transmission range, for better performance in occluded environments such as ovens & refrigerators.
- External antenna allows flexibility with mounting positions in both orientation & proximity to obstructions.
- CE Approved
- Splash-Proof



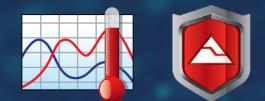
MadgeTech Software





Data Logger Software

MADGETECH 4 SOFTWARE

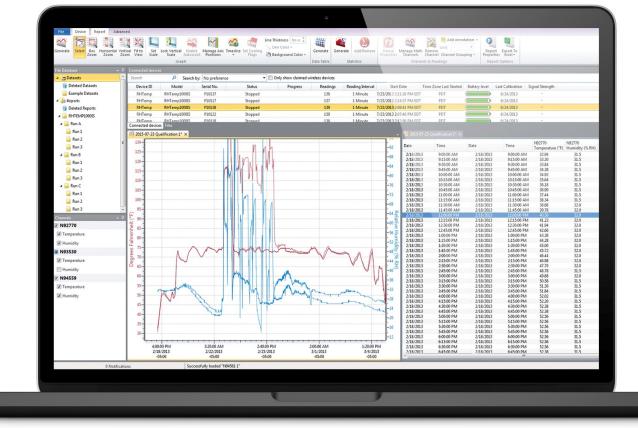


Powerful Data Analysis

- Customizable Reports
 - Graph, Tabular Data & Reports
- Annotate data points on the graph or tabular data.
- Statistics include minimum, maximum, average, time above temperature & more.

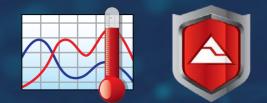
User Friendly

- Immediate device status information
- Digital calibration
- Automatic data saving
- Export to Excel



Getting Started

MADGETECH 4 SOFTWARE

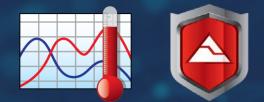


- All wireless loggers within range will be identified and displayed in the **Connected Devices** panel.
- Device information is displayed including **Device ID**, **Serial Number**, **Last Calibration Date** and **Battery Level**.
- Multiple devices can be connected, configured and operated simultaneously.

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Control		I	nformation	Wireless							
File Database 🚽 🕂	Connected device	es									→ Ū
🔺 📴 Datasets	Search	Search by:	No preference	🝷 🔲 Only	show claimed wire	ess devices					Refresh
🧊 Deleted Datasets	Device ID	Model	Serial No.	Status	Readings	Reading Interval	Battery Level	Revision	Start Time	Last Calibration	Signal Streng
🔜 Example Datasets	RFTEMP	RFTemp2000A	Z00274					3.1.E			
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Tests	RFTCTEMP	RFTCTemp2000A	Z00221					3.1.E			0
_	RFRHTEMP	RFRHTemp2000A	Z00134					3.1.A			
	Connected device	es Files									

Communication

MADGETECH 4 SOFTWARE

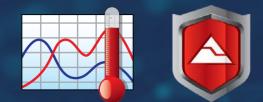


- To communicate and configure a wireless data logger, highlight the device within the Connected Devices panel and then click the Claim icon.
- Once a data logger is claimed, additional device information and configuration options are available.

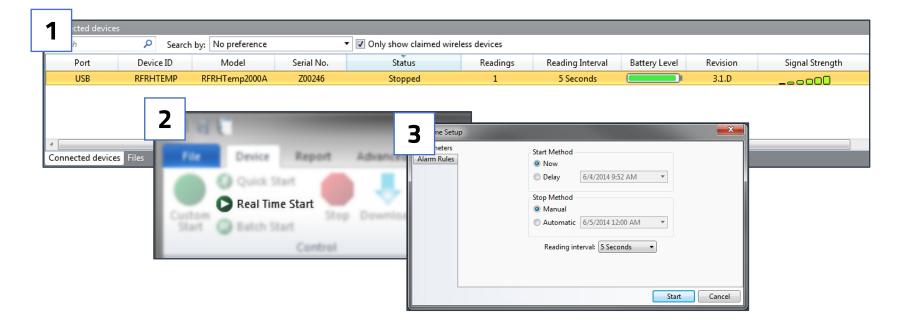
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Start in Real-Time

MADGETECH 4 SOFTWARE

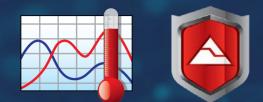


- Select the device within the Connected Devices panel.
- 2. Select **Real-Time Start** from the Control tab in the top menu bar.
- Choose your parameters for reading rate, immediate or delay start.



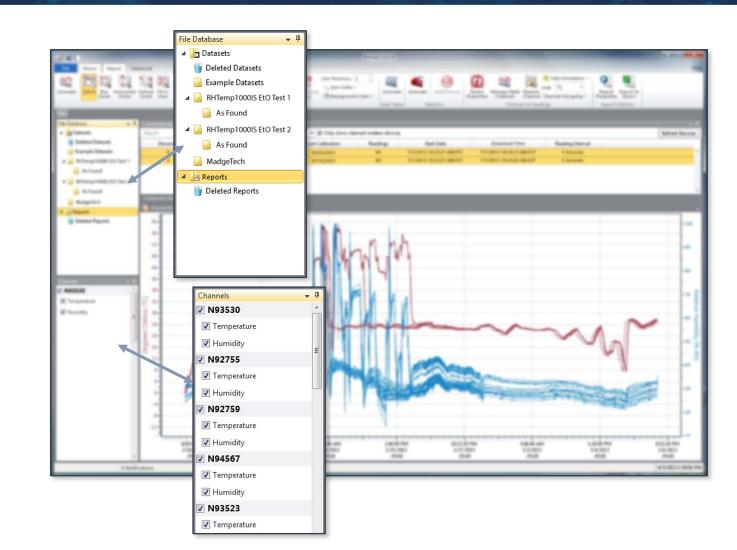
Data Analysis

MADGETECH 4 SOFTWARE



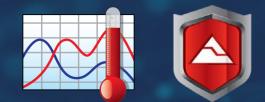
Data Handling & File Database

- As data is transmitted, it is saved to the built-in file database.
- Downloaded data is saved in the Datasets folder.
- When in Real-Time mode, a graph can automatically be generated and displayed.
- Customized graphs and compiled data can be saved to the Reports Folder.
- The look and feel is comparable to standard office software to aid in user friendliness and ease of use.

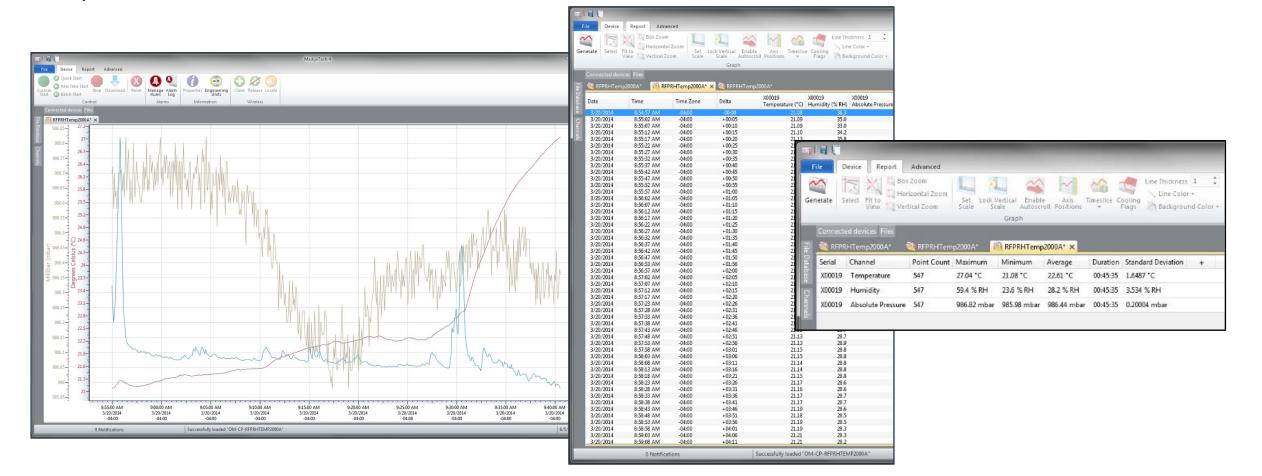


Data Analysis

MADGETECH 4 SOFTWARE

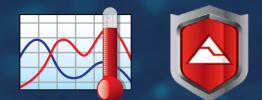


Graphs, Statistics & Tabular Data





MADGETECH 4 SOFTWARE



Customizable Interface

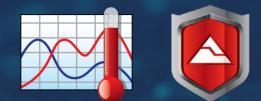
To increase efficiency, the MadgeTech software allows users to customize the layout of the screen multiple ways to better suit their needs.

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Export to Excel

MADGETECH 4 SOFTWARE



Export With the Click of a Button

MadgeTech Software makes data review easy with the ability to export to Microsoft Excel.



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Secure Software

MADGETECH 4 SECURE SOFTWARE



Aiding in 21 CFR Part 11 Compliance

MadgeTech 4 Secure Software aids customers in compliance with 21 CFR Part 11 requirements. The software ensures standards in which electronic files are considered equivalent to paper records, saving time and effort.

- MadgeTech 4 Secure Software Package
- IQ/OQ/PQ Protocols
- Software Validation Workbook





MADGETECH 4 SECURE SOFTWARE



Aids in Compliance with FDA 21 CFR Part 11/820 and GxP Guidelines

Additional security benefits such as:



Audit Trails



Secure Data Files





Administrative Privileges

Electronic Signatures

MadgeTech Cloud Services



Features

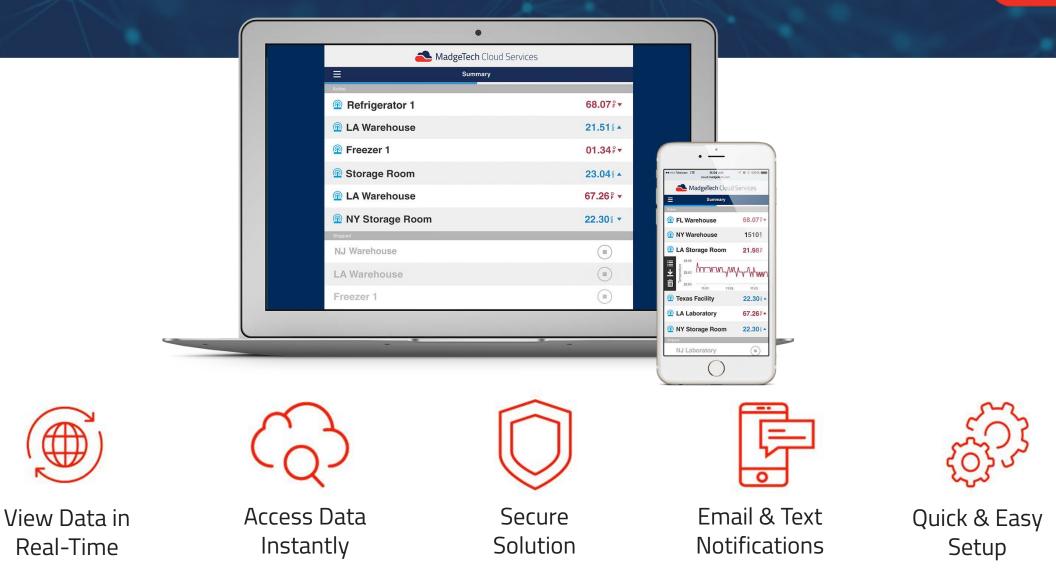
MADGETECH CLOUD SERVICES

With MadgeTech Cloud Services, a wireless data logger system can securely transmit data in real-time to be viewed on any internet or data enabled device such as a computer, tablet or mobile device.



Features

MADGETECH CLOUD SERVICES



RFC1000 Cloud Relay

MADGETECH CLOUD SERVICES

Wireless Data Logging Hub

- Transmits data directly to the cloud, eliminating the need for a Central PC.
- Real-time data can be viewed from any internet enabled device.



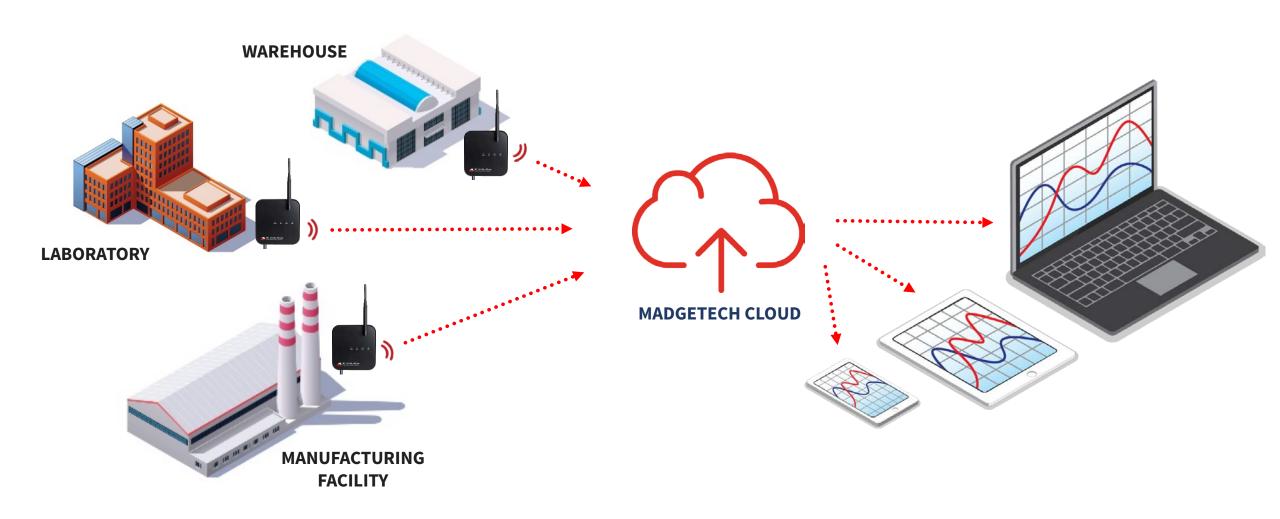
RFC1000 Cloud Relay

MADGETECH CLOUD SERVICES



RFC1000 Cloud Relay

MADGETECH CLOUD SERVICES



MadgeTech Customer Support



MadgeTech data loggers come with a one year manufacturers warranty.

Free support available for the lifetime of the product.

(603) 456-2011

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www.madgetech.com