### 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



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  - MadgeTech Cloud Services



## Wireless System Components BUILDING YOUR DATA LOGGING SYSTEM Wireless Temperature and Humidity Data Long 76,71F Wireless 27.7%RH Alarm MadaeNET A MADGETED A MADGETECH RFC1000

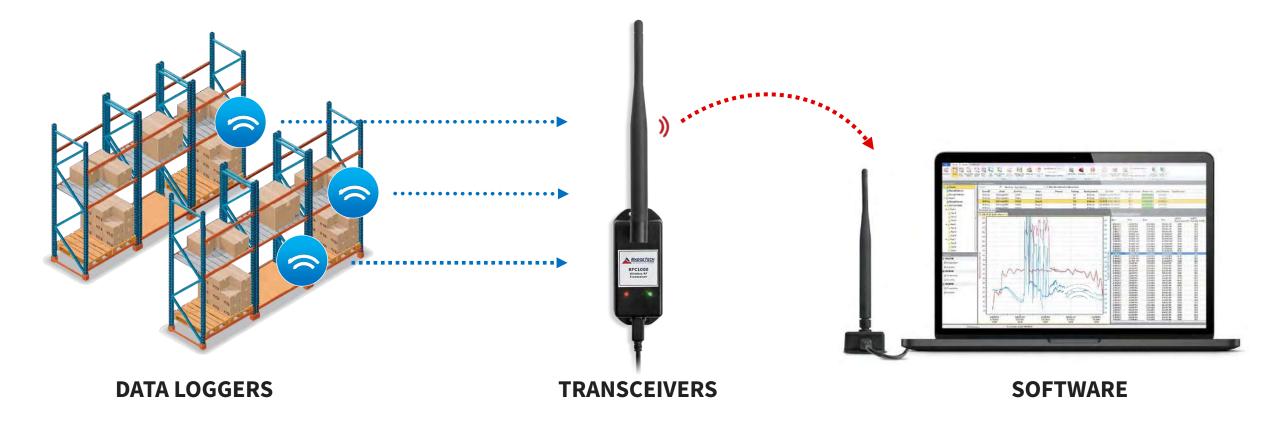
**DATA LOGGER** 

TRANSCEIVER

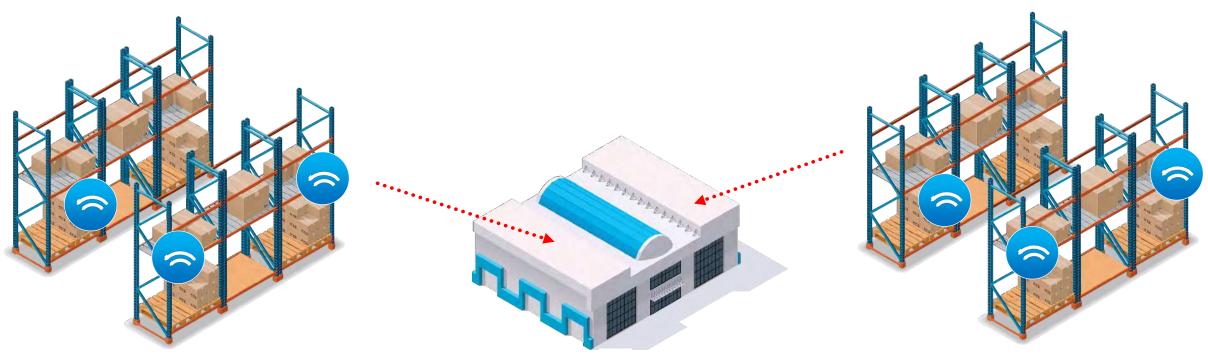
#### SOFTWARE

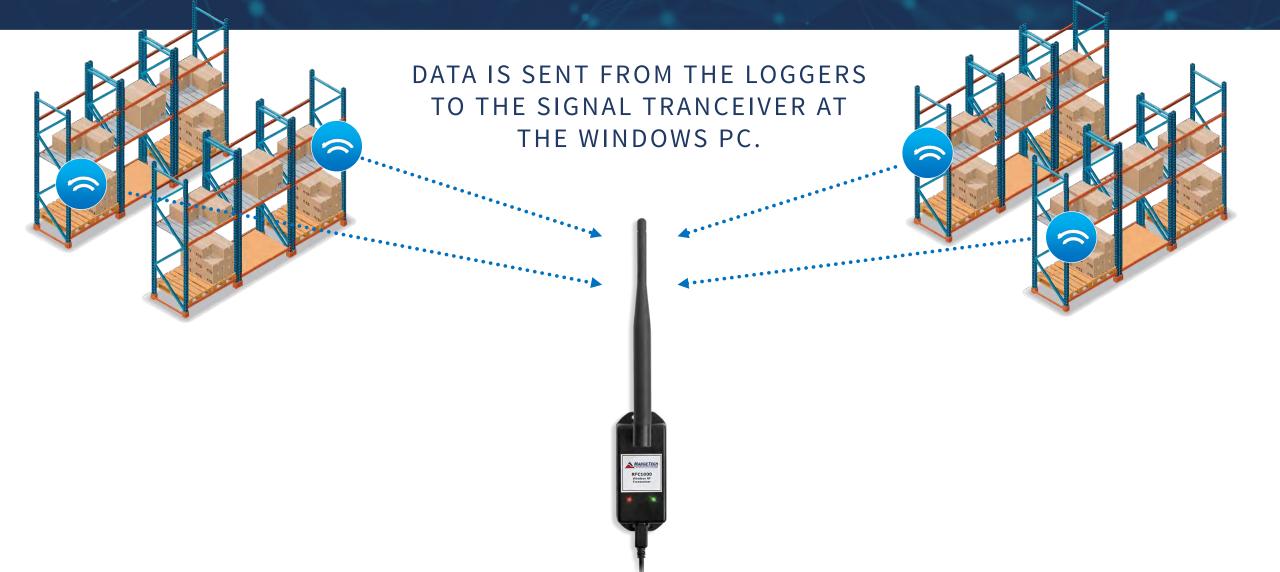
## Wireless Network Overview

#### DATA LOGGER COMMUNICATION THROUGHOUT YOUR FACILITY

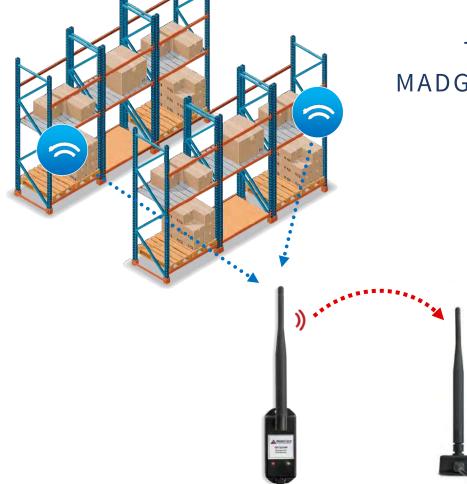


DATA LOGGERS ARE DEPLOYED THROUGHOUT THE FACILITY.







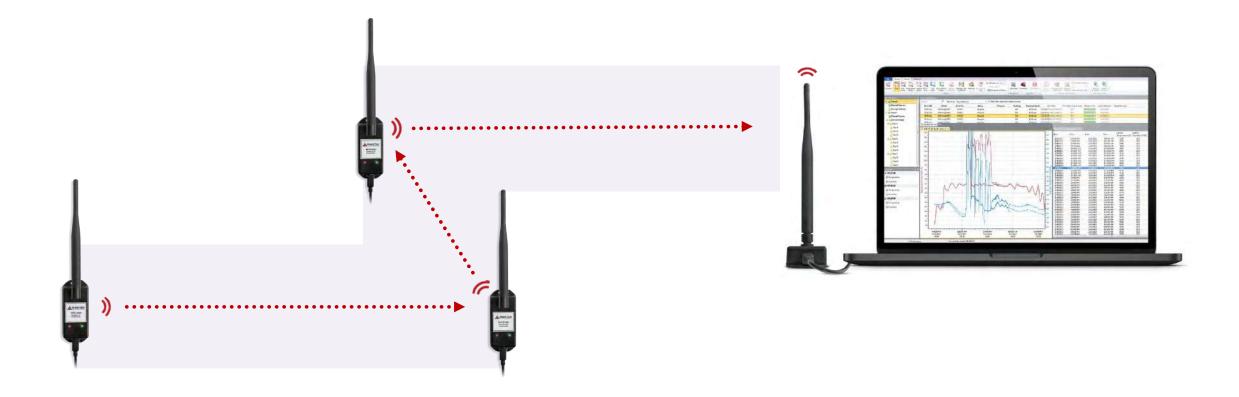


THE WINDOWS PC WITH MADGETECH SOFTWARE RUNNING DISPLAYS THE DATA.



## 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 Temperature
   Vol
- Voltage
- Remote Temperature
- Humidity
- Pressure

Pulse

- Current
- Carbon Dioxide



## 2000A Series

### WIRELESS DATA LOGGERS



**RFTemp2000A** Ambient Temperature Data Logger



**RFRHTemp2000A** Humidity & Temperature Data Logger



**RFPRHTemp2000A** Pressure, Humidity & Temperature Data Logger



RFTCTemp2000A Thermocouple Data Logger



RFRTDTemp2000A Precision RTD Data Logger



**VTMS** Vaccine Temperature Monitoring System



**RFVolt2000A** Voltage Data Logger



**RFPulse2000A** Pulse Data Logger



**RFCurrent2000A** DC Current Data Logger



**RFCO2RHTemp2000A** CO2, Humidity & Temperature Data Logger

## 2000A Series Features

### WIRELESS DATA LOGGERS





View Data in Real-Time



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

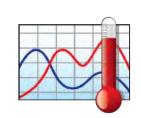
#### WIRELESS TRANSCEIVERS

### 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



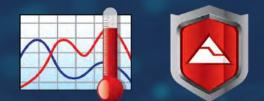
# MadgeTech Software





# 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.

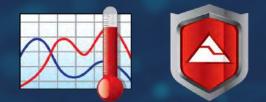
### User Friendly

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



# Getting Started

### MADGETECH 4 SOFTWARE

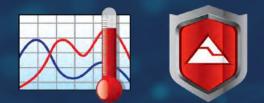


- All wireless loggers within range will be identified and displayed in the **Connected Devices** panel.
- Device information is displayed including **Device ID**, **Serial Number**, **Last Calibration Date** and **Battery Level**.
- Multiple devices can be connected, configured and operated simultaneously.

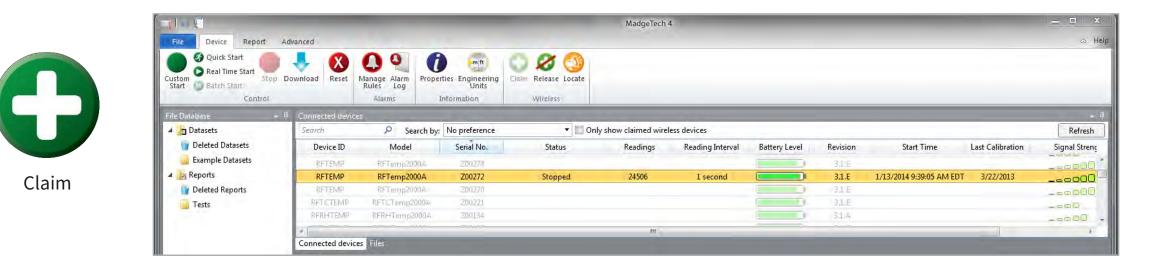
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# Communication

### MADGETECH 4 SOFTWARE

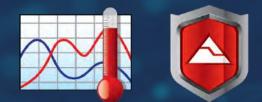


- To communicate and configure a wireless data logger, highlight the device within the Connected Devices panel and then click the Claim icon.
- Once a data logger is claimed, additional device information and configuration options are available.

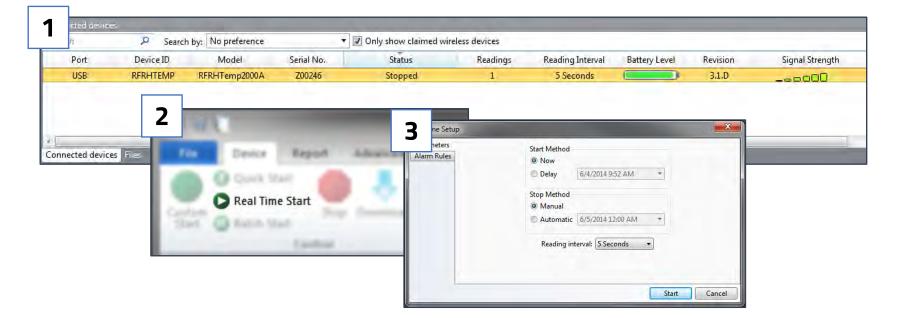


## Start in Real-Time

#### MADGETECH 4 SOFTWARE

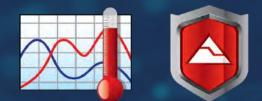


- Select the device within the Connected Devices panel.
- 2. Select **Real-Time Start** from the Control tab in the top menu bar.
- Choose your parameters for reading rate, immediate or delay start.



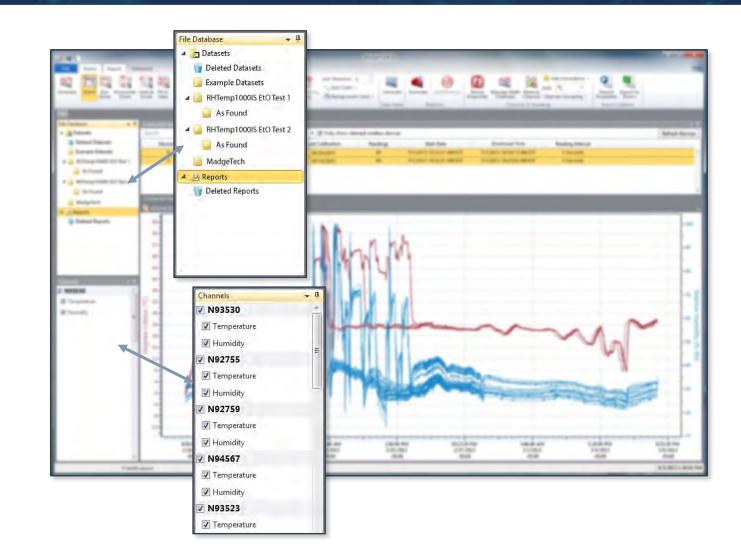
# Data Analysis

### MADGETECH 4 SOFTWARE



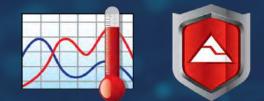
### Data Handling & File Database

- 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.

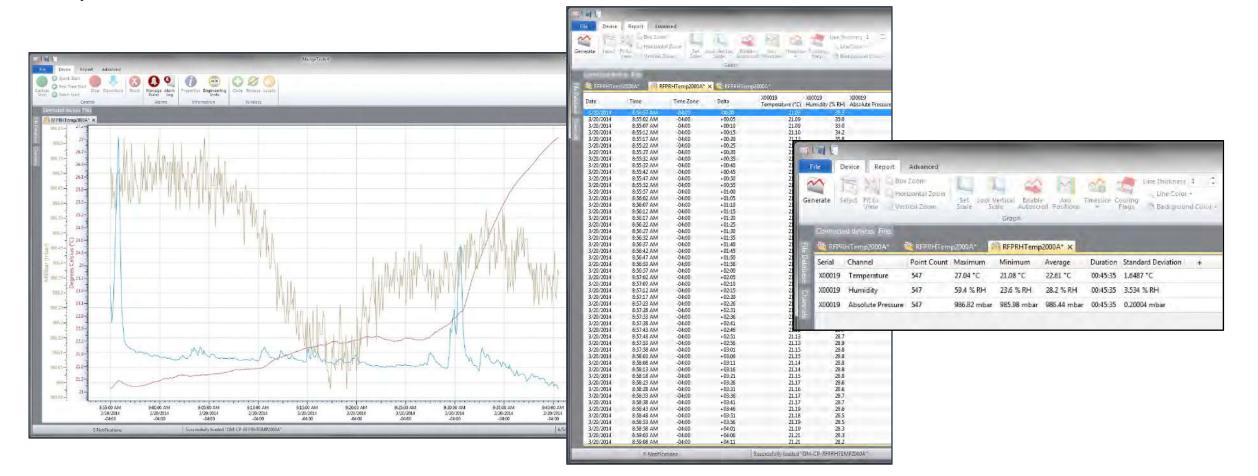


# Data Analysis

#### MADGETECH 4 SOFTWARE

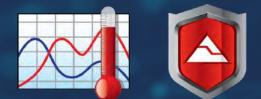


### Graphs, Statistics & Tabular Data





### 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

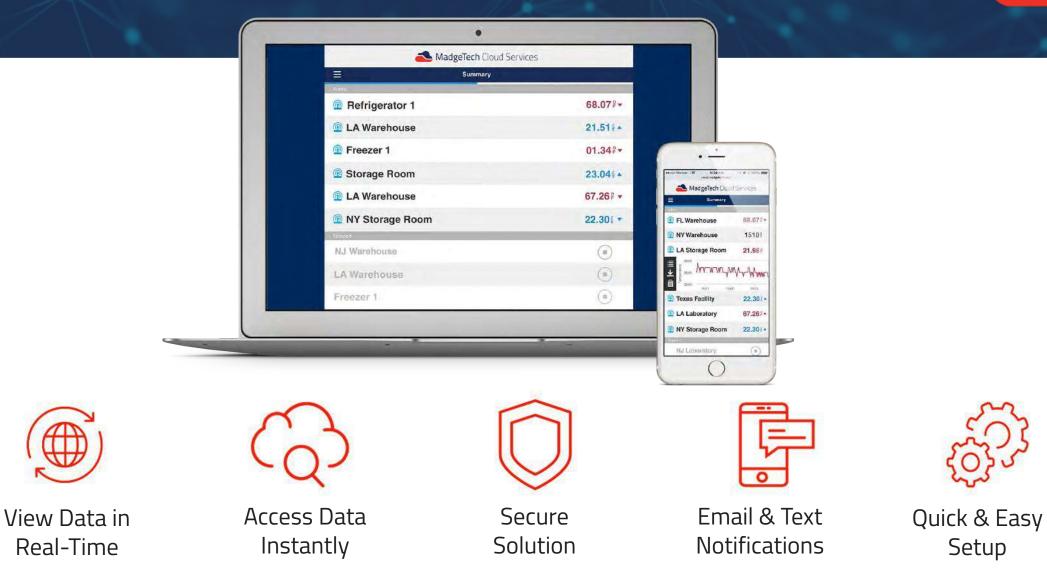
#### MADGETECH CLOUD SERVICES

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.



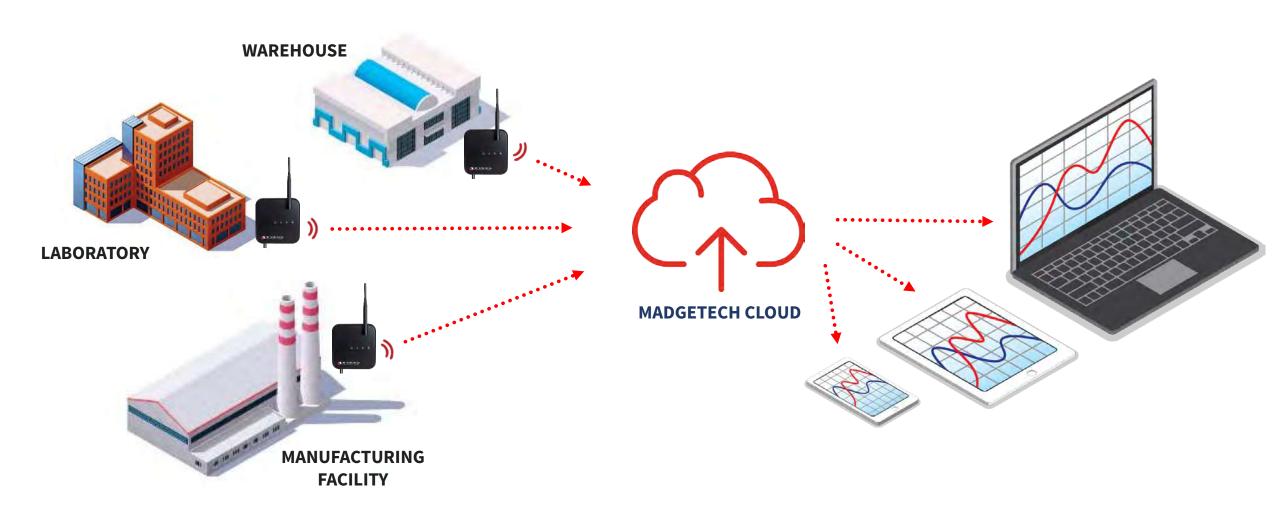
# RFC1000 Cloud Relay

MADGETECH CLOUD SERVICES



# RFC1000 Cloud Relay

MADGETECH CLOUD SERVICES



# MadgeTech Customer Support