

MadgeTech
Cloud Services

User Manual



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Welcome to MadgeTech Cloud Services

Compact, accurate and affordable, MadgeTech data loggers can measure and record data for a variety of parameters. Now, with the addition of MadgeTech Cloud Services, monitoring data from around the world is easier than ever. With MadgeTech Cloud Services, a wireless data logging system can securely transmit real-time data to be viewed on any internet or data enabled device such as a computer, tablet or mobile device.



Getting Started with MadgeTech Cloud Services
Page 3



Setting Up MadgeTech Cloud Services with the
RFC1000 Cloud Relay
Page 4-5



MadgeTech Cloud Services Overview
Page 6-19

Contents

- 6 | Main Navigation
- 7 | Summary Page
- 9 | Download/Delete Data
- 10 | Manage Relays
- 11 | Logger Settings
- 12 | Starting and Stopping a Data Logger
- 13 | Manage Alerts
- 14 | Assigning Alerts to a Data Logger
- 15 | Logger Groups
 - Managing Groups
- 17 | Preferences
- 18 | Account Management
- 19 | User Information
- 19 | Email Support
- 20 | Using Cloud Services with MadgeTech 4 Software
- 22 | Troubleshooting
- 22 | Contact Information



Getting Started with MadgeTech Cloud Services

Creating a MadgeTech Cloud Services Account

1. Go to cloud.madgetech.com .
2. Click Create an Account .
3. Fill out all of the required fields and click Sign Up to create a free account.
4. An email notification will be sent. Click the Verify Your Account link in the email to complete setup.

MadgeTech Cloud Services

Real-Time Data. Anytime. Anywhere.

MadgeTech Cloud Services provides instant access to temperature data and more from any internet enabled device!

Sign up for FREE today!

Account Information

First Name

Last Name

Company/Organization

Phone Number

Account Credentials

Email

Password

Confirm Password

Show password

SIGN UP

Logging into MadgeTech Cloud Services

1. Go to cloud.madgetech.com .
2. Login using the MadgeTech Cloud Services account email and password.
3. Once logged in, the browser will display the summary of loggers.

Supported Web Browsers

- Chrome
- Safari
- Firefox
- Edge
- Opera

MadgeTech Cloud Services

Real-Time Data. Anytime. Anywhere.

MadgeTech Cloud Services provides instant access to temperature data and more from any internet enabled device!

Email Address

Password

Save my password

LOGIN

[Forgot My Password](#)

CREATE AN ACCOUNT

[Learn More](#)



Setting up MadgeTech Cloud Services with the RFC1000 Cloud Relay



The RFC1000 Cloud Relay allows data from MadgeTech wireless loggers to be sent directly to a MadgeTech Cloud Services account, eliminating the need for a central PC and MadgeTech 4 Software. With the RFC1000 Cloud Relay, real-time data can easily be transmitted to the MadgeTech Cloud, where it can be viewed from any Internet enabled device.

System Requirements

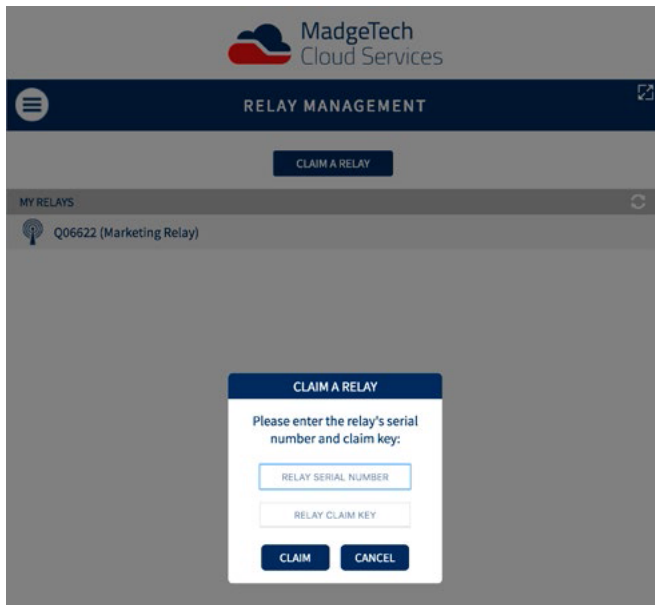
- MadgeTech wireless data logger(s). Data loggers must be running in real-time recording mode.
- MadgeTech RFC1000 Cloud Relay
- MadgeTech Cloud Services account
- Ethernet jack for Internet access
- Electrical outlet



Setting up MadgeTech Cloud Services with the RFC1000 Cloud Relay

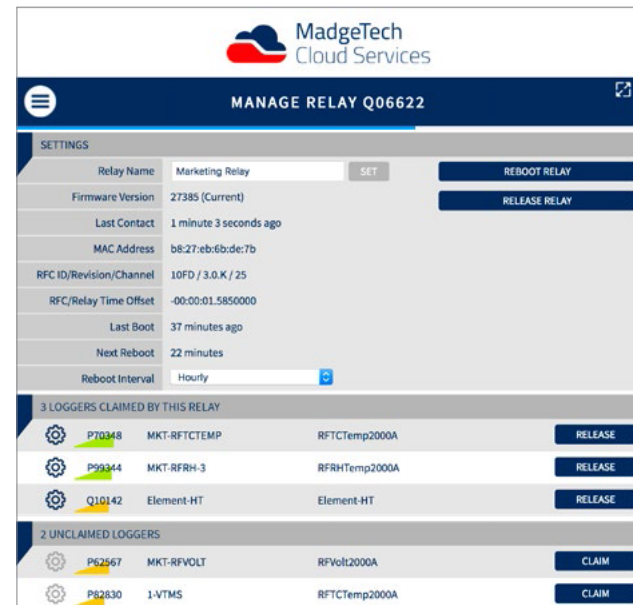
Claiming an RFC1000 Cloud Relay

1. From the navigation menu, select **Manage Relays**.
2. Click the **Claim a Relay** button.
3. Enter the RFC1000 Cloud Relay Serial Number and Claim Key (located on the side label on the device enclosure). It may take 1-2 minutes for the RFC1000 Cloud Relay to sync to the MadgeTech Cloud Services account.
4. Once synced, the device will be shown in the **My Relays** list.



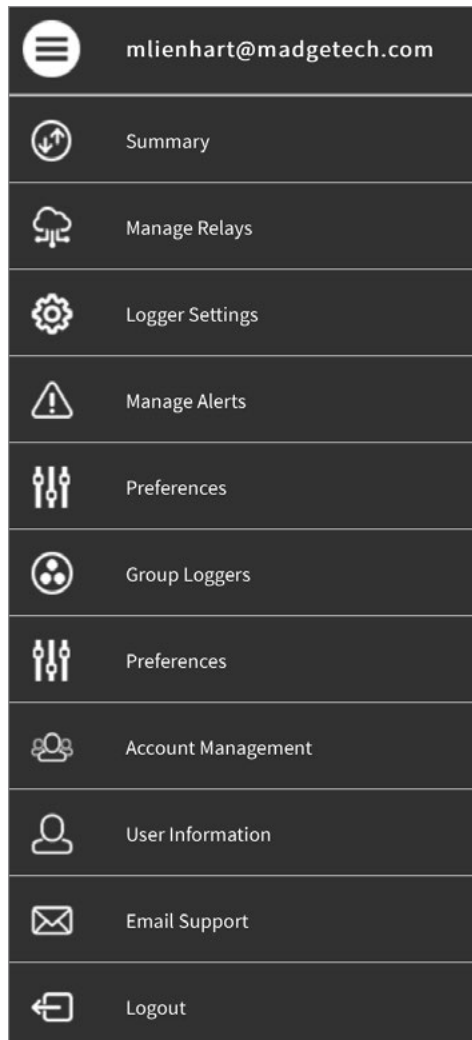
Claiming a Data Logger

1. Verify that the data loggers are in wireless transmission mode.
2. From the navigation menu, select **Manage Relays**.
3. Select an RFC1000 Cloud Relay listed under **My Relays**.
4. Any MadgeTech wireless data loggers on the same network and within range will be listed under **Unclaimed Loggers**.
5. Click the **Claim** button next to the data loggers you would like to claim. It may take 1-2 minutes for the wireless data logger to sync.
6. Once synced, the data logger will appear under **Loggers Claimed by this Relay**.
7. This page also displays the **Relay settings** and **Reboot Relay** and **Release Relay** buttons.






MadgeTech Cloud Services Overview



Main Navigation

 The main navigational menu can be accessed by selecting the icon located at the top left of the screen.

- **Summary:** Homepage of the MadgeTech Cloud Services account. Shows data logger Groups, Status, Data, Alerts and Download Data options.
- **Manage Relays:** Claim or release an RFC1000 Cloud Relay.
- **Logger Settings:** Shows Running, Stopped, Disconnected or Inactive data loggers. Show or hide the data loggers on the cloud. Display information about the data loggers including the Model, Serial Number, Cloud ID, Signal Strength, Battery Life, Status, Display Options and more. Change data logger Name and Group, Release data loggers, and Start and Stop data loggers. Assign alerts and contacts to data loggers.
- **Manage Alerts:** Create and manage Alert rules and contacts.
- **Group Loggers:** Add, delete and rename data logger Groups. Define a group by assigning data loggers, alerts and subgroups.
- **Preferences:** Select unit preferences and the time format.
- **Account Management:** Add and maintain account information. Add, edit and delete users and manage their access rights.
- **User Information:** Add and maintain user and password information.
- **Email Support:** Sends an email to MadgeTech Support.
- **Logout:** Logs the user out of their MadgeTech Cloud Services account.



MadgeTech Cloud Services Overview

Summary Page

The screenshot displays the MadgeTech Cloud Services Summary Page. The interface includes a navigation menu, summary page views, data refresh status, and a list of logger groups. A detailed view of a logger (Warehouse 2) is shown, including a data graph for Humidity (RH) and an alert for 'Temperature Above 70°F for 1 reading'. The page also shows a list of loggers for FLOOR 2, including Smokehouse 2 and Smokehouse 3.

Annotations:

- Navigation Menu
- Summary Page Views
- Data Refresh Status
- Logger Group
- Logger Connected to the MadgeTech 4 Software
- Logger Subgroup
- Logger Claimed by a RFC1000 Cloud Relay
- Alert
- Logger Settings
- Download Data
- Delete Data
- Full Screen Mode
- Bulk Download Data
- Time Passed Since Last Reading
- Data Value
- Data Graph
- Logger Stopped
- Data Trend



MadgeTech Cloud Services Overview


Summary Page

Running Data Loggers


On the Summary screen, data loggers that are currently recording in real-time will have the Time Passed Since Last Reading and Data Value listed.

- Display a Graph by clicking in the data logger row.
- View the Logger Settings by clicking on the data logger name.
- For data loggers with more than one channel, users can shuffle through the parameters by clicking on the current reading value.
- Click on the displayed graph to enhance to a larger view.


Stopped Data Loggers

 Data loggers that are Stopped but still cloud enabled, will display the Stopped icon on the Summary screen.

Inactive Data Loggers

 If a data logger is inactive, too much time has passed without a reading. No readings have been received in a half hour or more.

Disconnected Data Loggers

 Data loggers that are Disconnected are not communicating with either the Relay or the MadgeTech 4 Software.

MadgeTech Cloud Services

SUMMARY

ALL LOGGERS | ALL GROUPS | COLLAPSE ALL | BULK DOWNLOAD

NOT GROUPED LOGGERS: 0
There are no loggers in "Not Grouped"

HEADQUARTERS LOGGERS: 4

FLOOR 1 LOGGERS: 2

- Warehouse **Disconnected: Please restart the relay. Note the logger must be within RF range of its relay & metal objects interfere with RF signals.**
- Warehouse 3

FLOOR 2 LOGGERS: 2

- Smokehouse 2 **Too much time has passed without a reading: Please stop and restart logger.**
- Smokehouse 3 4 min 56.7 sec 25.34 °C



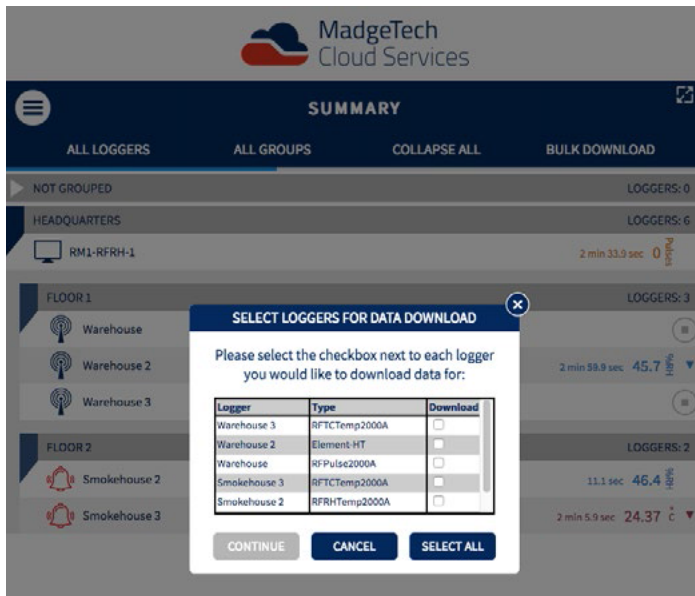
MadgeTech Cloud Services Overview

Summary Page

Bulk Data Download

Users are able to bulk download data from multiple data loggers as a csv file (that can be read by spreadsheet software such as Excel and Google Sheets).

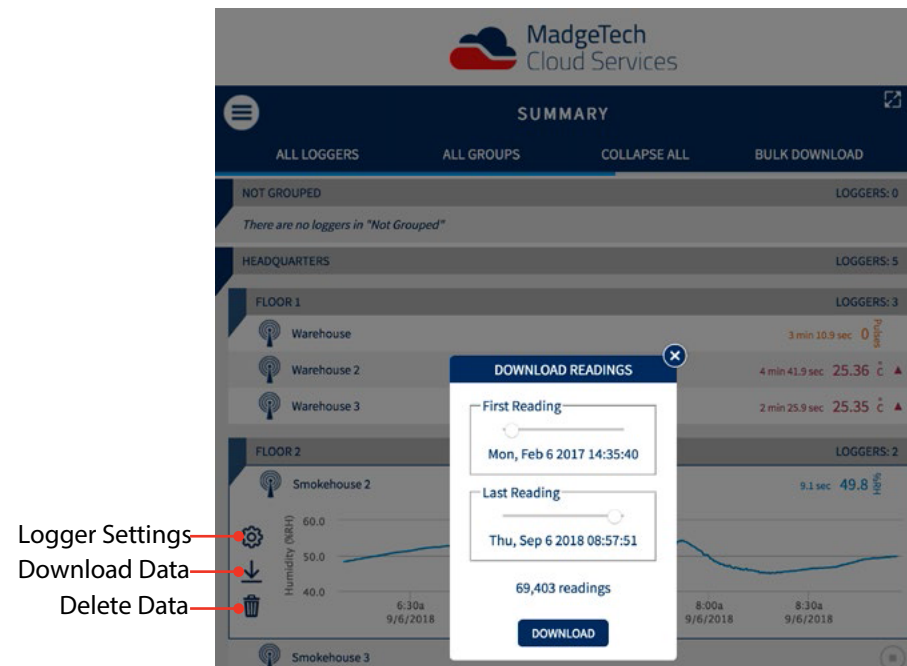
1. Click Bulk Download .
2. Select the checkbox next to each logger you would like to download data for or click Select All to download data for all loggers.
3. Click the Continue button.
4. Select First Reading , Last Reading and One File or Multiple Files .
5. Click the Download button.



Download/Delete Data

Clicking on a data logger within the Summary screen will provide the user with a real-time graph view of the data. To the left of the graph, there are three additional options:

- **Logger Settings:** View and manage claimed data loggers.
- **Download Data:** Download data as an .xls file.
- **Delete Data:** Delete recorded data.





MadgeTech Cloud Services Overview

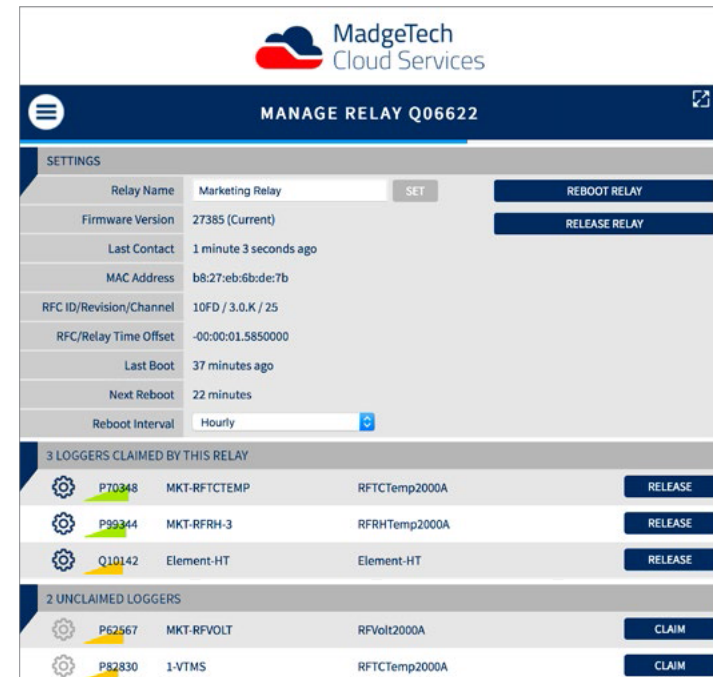
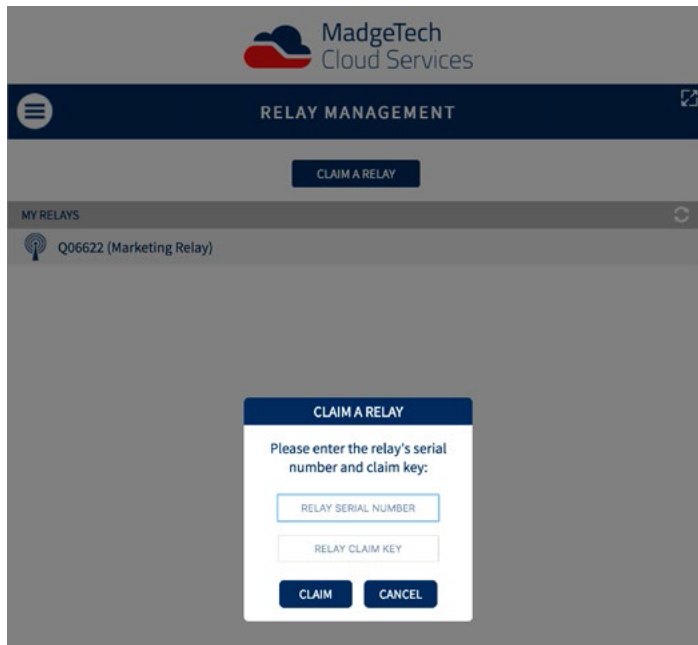
Manage Relay

The Manage Relays section allows users to add and manage RFC1000 Cloud Relays and claim and release Data Loggers.

1. Click Claim A Relay to add a new Relay.
2. Enter the Relay's serial number and claim key located on the Relay.
3. Click Claim. It may take 1-2 minutes for the RFC1000 Cloud Relay to sync to the MadgeTech Cloud Services account.

Once a Relay is claimed, users can:

- View the Relay's Settings.
- Set the Relay's Name.
- Change the Relay's Reboot Interval.
- Reboot and Release the Relay.
- Claim and Release data loggers.





MadgeTech Cloud Services Overview

Logger Settings

The Logger Settings section allows the user to toggle the visibility of connected data loggers by clicking the Hide or Show button on the right side. This will change how the data loggers are displayed on the Summary page.

Clicking the gear icon to the left of the data logger will show detailed information:

- **Manage Alerts:** Add alerts and contacts to the data logger.
- **Release Logger:** Release data logger from the Relay.
- **Cloud ID:** Cloud ID number for that data logger.
- **Model:** The type of data logger.
- **Serial:** The data logger's serial number.
- **Name:** Display/change the name of the data logger.
- **Group:** Display/change the group.
- **Display Using:** Toggle between displaying the Name or Serial number on the Summary page.
- **Visibility:** Hide/Show data logger.
- **CalDate:** Date the logger was last calibrated.
- **Status:** Indicates if the data logger is Running, Stopped, Disconnected or Inactive.
- **Started:** Shows the date and time the logger was started.
- **Channel:** Indicates the wireless channel the data logger is using.
- **# Rdg:** Indicates the number of recorded readings.
- **Rdg Rate:** Indicates the frequency with which readings are being recorded by the data logger (only present with the use of the RFC1000 Cloud Relay).
- **# Rdgs in Graph:** Display/change the number of readings shown in Graph on Summary page.
- **Host:** Indicates hosting device to which the data logger is connected.
- **Signal:** Indicates the signal strength (only present with the use of the RFC1000 Cloud Relay).
- **Battery:** Indicates the battery life of the data logger (only present with the use of the RFC1000 Cloud Relay).



MadgeTech Cloud Services Overview

Logger Settings

Starting a Data Logger

1. From the Navigation menu, select Logger Settings.
2. Within the Logger Settings screen, click on a data logger you would like to start.
3. Within the Status row, click the Start button. It may take 1-2 minutes for the data logger to sync to the MadgeTech Cloud Services account.
4. Once synced, the data logger will start recording.

Stopping a Data Logger

1. From the Navigation menu, select Logger Settings.
2. Within the Logger Settings screen, click on a data logger you would like to stop.
3. Within the Status row, click the Stop button. It may take 1-2 minutes for the data logger to sync to the MadgeTech Cloud Services account.

The screenshot displays the MadgeTech Cloud Services interface for a specific data logger. At the top, the MadgeTech logo and 'Cloud Services' text are visible. Below this is a dark blue header with a hamburger menu icon on the left and the text 'SETTINGS FOR 'Smokehouse 2'' on the right, accompanied by a refresh icon. A 'MANAGE ALERTS' button is positioned below the header. The main content area is titled 'LOGGER SETTINGS' and contains a list of parameters for the data logger. Each parameter is displayed in a row with a label on the left and a value on the right. Some rows include interactive buttons or controls. At the bottom of the settings list, there are two progress bars: one for 'Signal' at 44% and one for 'Battery' at 92%.

Parameter	Value	Action
Cloud ID	2079	RELEASE LOGGER
Model	RFRHTemp2000A	
Serial	P99344	
Name	Smokehouse 2	
Group	Floor 2	
Display Using	Serial Name	
Visibility	HIDE	
CalDate	Wed, Aug 10 2016	
Status	Running	STOP
Last Contact	1 second ago	
Started	May 3 2018 10:42:31a	
Channel	25	
# Rdgs	69,403	
Rdg Rate	10 seconds	
# Rdgs in Graph	1000	
Host	Cloud Relay 'Marketing Relay' (s/n Q06622) Connected	
Signal	44%	
Battery	92%	



MadgeTech Cloud Services Overview

Manage Alerts

Creating an Alert Rule

1. From the Navigation menu, go to Manage Alerts.
2. Click Create.
3. The Create New Alert Rule dialog box will pop up prompting the user to select from the following:
 - No Readings
 - Channel Threshold
 - Battery Level
4. Fill out the appropriate fields
5. Click Create to save your alert.

ALERT MANAGEMENT

ALERT RULES CREATE

- Temperature Above 70°F for 1 reading
- Battery Level below 10%
- No Readings for 5 minutes
- Humidity Above 60%RH for 2 readings

ALERT CONTACTS ADD

- James
- Michelle
- Michelle's Phone

CREATE NEW ALERT RULE

Alert Type: No Readings

For: 1 minutes

CREATE CANCEL

CREATE NEW ALERT RULE

Alert Type: Channel Threshold

When: (Channel)

(Trigger) for (Unit) (Qualifier)

CREATE CANCEL

CREATE NEW ALERT RULE

Alert Type: Battery Level

Below: %

CREATE CANCEL

ADD ALERT CONTACT

Name: Person name

Address: Email or SMS email

SMS can be sent using the format <phonenumber>@<smgateway.com>
[Click here for a list of SMS gateways](#)

CREATE CANCEL

Adding an Alert Contact

Text and email alert notifications can be sent to one or multiple contacts.

1. Click the Add button next to Alert Contacts.
2. Fill out the fields.
 - Name: Fill in the name of the contact.
 - Address: Fill in the email or SMS email to have the alert texted.
3. Click Create to save your contacts.

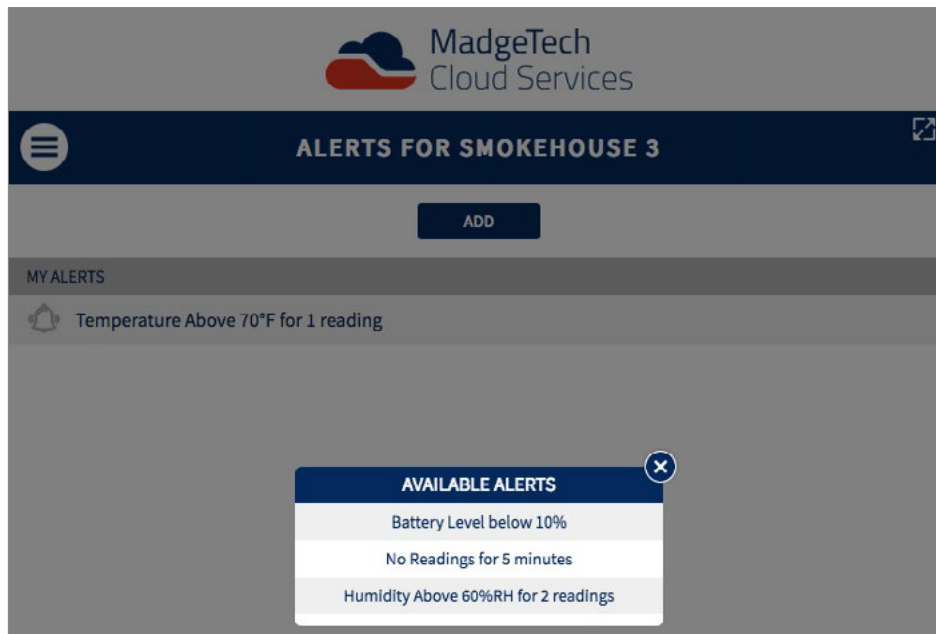


MadgeTech Cloud Services Overview

Assigning Alerts to Data Loggers

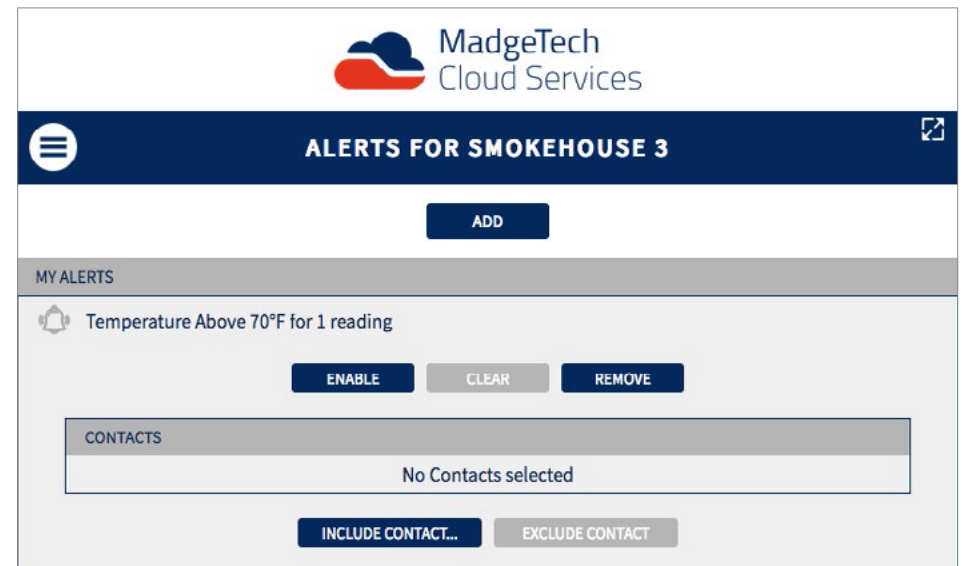
Once Alert Rules have been created, you may then assign these alerts to claimed data loggers.

1. Select the data logger from the Summary page to open the Logger Settings.
2. Click the Manage Alerts button.
3. Click the Add button.
4. Select an Alarm Rule within the list.



Once an Alert Rule has been assigned to a data logger, you may then assign contact(s) and Enable or Disable alerts.

1. Click the Alert in the My Alerts list to expand the options for that Alert.
2. Click the Include Contact button and select a contact(s) for who will receive alert notifications.
3. Click the Enable button to make the Alert active for that data logger.





MadgeTech Cloud Services Overview

Group Loggers

Once data loggers have been claimed, you may then assign them to Groups and Subgroups as well as add Alerts to Groups.

Add a Logger Group

1. Select Group Loggers from the navigation.
2. Click the main Add button on the right side of the page. Make sure all Groups are collapsed for the Add button to be clickable.
3. Fill out the fields for both the Logger Group Name and Logger Group Description. Both fields must be filled out to save the Group.
4. Click the Save button.

LOGGER GROUPS	ADD	
NAME	DESCRIPTION	PARENT GROUP
Not Grouped	Loggers not assigned to a group	

ADD LOGGER GROUP

Logger Group Name

Logger Group Description

SAVE **CANCEL**

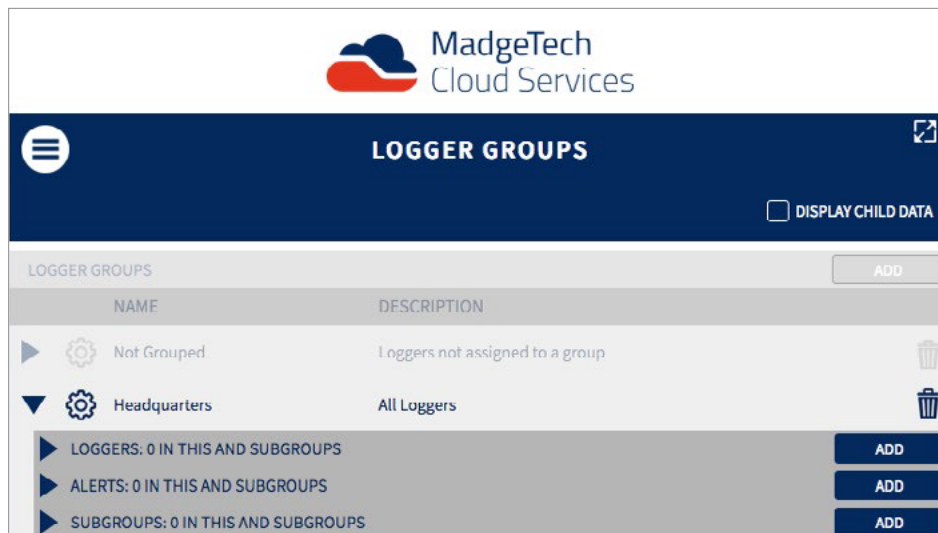


MadgeTech Cloud Services Overview

Managing Groups

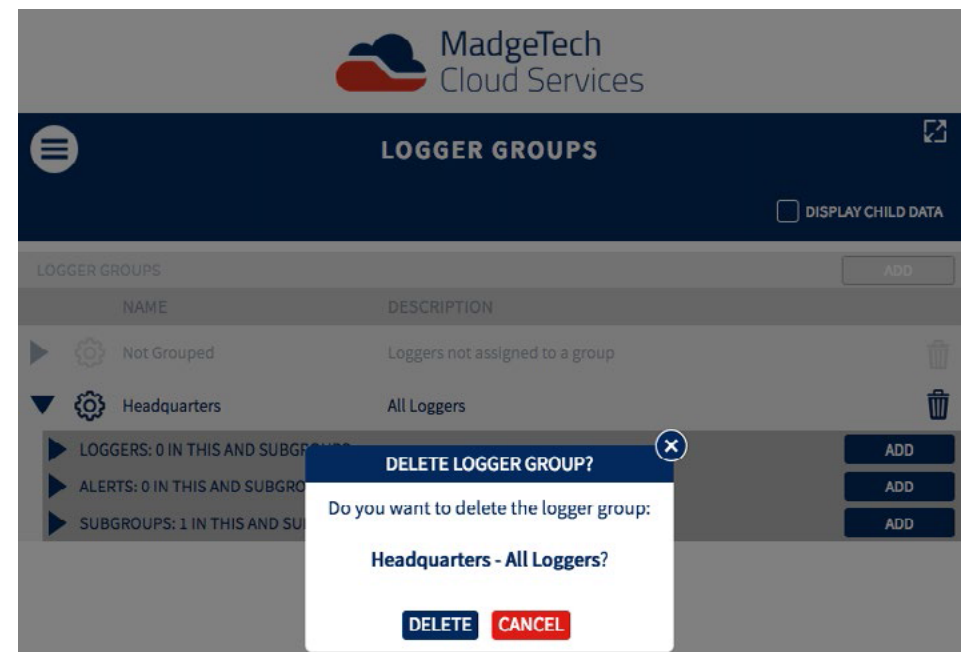
Once a Logger Group has been created, you may then add data loggers, alerts and subgroups to it.

1. Click the arrow to the left of the Group name to expand that group. You can only have one Group expanded at a time.
2. To add a data logger to a Group, click the Add button in the Loggers row and select the data logger from the list.
3. To add an Alert to a Group, click the Add button in the Alerts row and select the Alert from the list.
4. To add a Subgroup to a Group, click the Add button in the Subgroups row and type in the Logger Group Name and Logger Group Description in the fields. Both fields must be filled out to save the Subgroup.



Deleting Groups

To delete a Group, click the Trash Can icon in the Group's row. All loggers in that Group will be moved to Not Grouped.





MadgeTech Cloud Services Overview

Preferences

The Preferences section allows the user to change the display units for each compatible parameter and the time format. The time format can either be a 12 hour or 24 hour clock.

Note: The time displayed is based upon the remote user's location, not the location of the data logger.

The screenshot shows the 'PREFERENCES' page in the MadgeTech Cloud Services interface. The page has a dark blue header with the MadgeTech logo and the text 'MadgeTech Cloud Services'. Below the header is a dark blue bar with a hamburger menu icon on the left and the word 'PREFERENCES' in white on the right. The main content area is light gray and is divided into two sections: 'UNITS' and 'TIME'. The 'UNITS' section lists various parameters with their current units selected in a dark blue box: Temperature (°C), Humidity (%RH), Pressure (psi), Pulses (Pulses), Current (A), CO2 (ppm), Voltage (V), TC Temp (°C), and RTD Temp (°C). The 'TIME' section has a 'Format' option with '12 hour' selected in a dark blue box and '24 hour' as an alternative.

UNITS	
Temperature	°C °F
Humidity	%RH
Pressure	psi bar Pa kPa MPa
Pulses	Pulses
Current	A mA
CO2	ppm
Voltage	V mV
TC Temp	°C °F
RTD Temp	°C °F

TIME	
Format	12 hour 24 hour



MadgeTech Cloud Services Overview

Account Management

The Account Management page shows the Account Information for the MadgeTech Cloud Services account.

The screenshot shows the MadgeTech Cloud Services Account Management page. The top header includes the MadgeTech logo and the text "ACCOUNT MANAGEMENT". Below this is a "SAVE" button. The main content area is titled "ACCOUNT INFORMATION" and contains the following details:

- Created: Wed Sep 05 2018
- Company: MadgeTech
- Address: 6 Warner Road, Address Line 2, Address Line 3, Address Line 4, Warner, NH 03278, Country
- Phone: 603-456-2011
- Email: mlienhart@madgetech.com

Below the account information is a "USERS" section with an "ADD" button. The users table is as follows:

NAME	EMAIL	LOGIN STATUS	SECURITY LEVEL
Lienhart, Michelle	mlienhart@madgetech.com	Active	Admin

Adding Additional Users

1. From the Account Management page, click on the Add button in the Users section to bring up the Adding A User dialog box.
2. Fill in the fields for the user's Name, Company, Address and Phone. Note that some fields are required.
3. Select the User's Security: Admin, Logger Admin, Read-only, Inactive.

The screenshot shows the "ADDING A USER" dialog box. It contains the following fields and options:

- Name: First (required), Last (required)
- Company: Company Name (Both first name & last name are required)
- Address: Address1, Address2, Address3, Address4, City, Prov/State, Postal Code
- Contact: Phone, Email (required)
- Security: Read-only (dropdown menu)

At the bottom of the dialog are "SAVE" and "CANCEL" buttons.



MadgeTech Cloud Services Overview

User Information

The User Information page shows the information for the current user. From this page, the user can update their name, company, address, phone, email or password.

MICHILLE LIENHART			
USER INFORMATION SAVE			
Name	Michelle	Lienhart	
Company	MadgeTech		
Address	Address1		
	Address2		
	Address3		
	Address4		
	City		
	Prov/State	Postal Code	
Country			
Contact	603-456-2011	mlienhart@madgetech.com	
Password	*****	New Password	Confirm New Password

Email Support

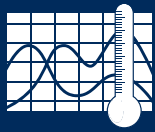
The Email Support button allows the user to contact MadgeTech for any support or technical questions. Enter the subject for the email and click the create button. This will launch the user's default email carrier.

EMAIL SUPPORT

Please enter your message for support:

Subject

CREATE CANCEL



Setting Up MadgeTech Cloud Services with the MadgeTech 4 Software

MadgeTech Cloud Services can be used with the PC-based MadgeTech 4 Software with no additional equipment required. Data is sent from the MadgeTech 4 Software to your MadgeTech Cloud Services account, where data can be viewed on any Internet enabled device.

System Requirements

- MadgeTech wireless data logger(s). Data loggers must be running in real-time recording mode.
- MadgeTech RFC1000 wireless transceiver.
- MadgeTech Cloud Services account.
- A PC with Internet access, running the latest version of the MadgeTech Software.

Getting Started

Logging into the MadgeTech Cloud Services in the MadgeTech 4 Software

1. Open the MadgeTech 4 Software.
2. Click the File tab, and then click the Options button located at the bottom of the menu.
3. Click the Cloud tab located on the left sidebar.
4. Sign in using the MadgeTech Cloud Services account email and password and click the Log in button.

MadgeTech Cloud Services


Email:

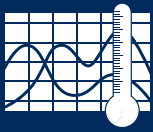
Password:

[I forgot my password](#)

Providing instant access to your data from any internet enabled device!

- ✓ View Data From Anywhere
- ✓ Access Data Instantly & Securely
- ✓ Quick & Easy Setup
- ✓ World Class Support

 [Learn More](#)

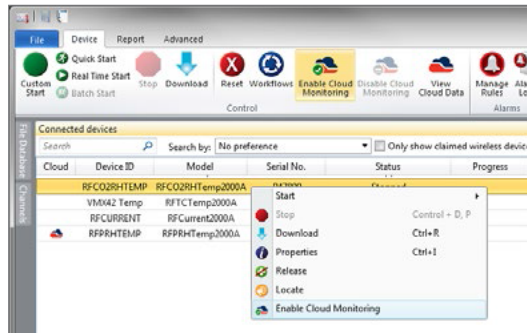


Enabling/Disabling Data Loggers within the MadgeTech 4 Software

Enabling a data logger for MadgeTech Cloud Services

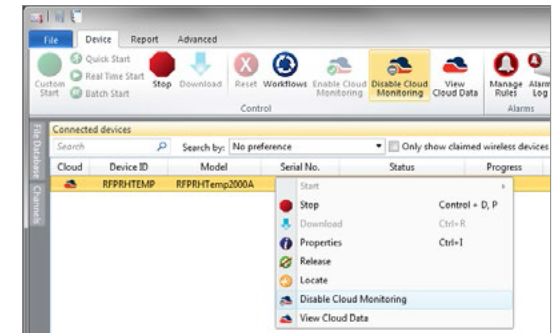
MadgeTech wireless data loggers must be enabled to send data to the cloud.

1. In the MadgeTech 4 Software, select the data logger to connect to the MadgeTech Cloud. Multiple devices can be selected, by holding the CTRL or Shift key and either selecting additional devices or pressing the arrow keys.
2. On the Device tab, in the Control group, click Enable Cloud Monitoring. Users can also right-click on the device and select Enable Cloud Monitoring in the context menu.
3. In the Connected Devices panel, there is a Cloud column. If the Cloud column is not visible, right click on any of the other columns and a drop down menu will appear with other column options. Make sure the Cloud option is selected and a check mark is visible.
4. If a data logger is cloud enabled and is running in real-time, the Cloud icon will be colored. If the data logger is cloud enabled but stopped or not running in real-time, the cloud icon will appear gray. If the data logger is not connected to the cloud at all, there will be no icon in the Cloud column.



Disabling a data logger from MadgeTech Cloud Services

1. In the MadgeTech 4 Software, select a Cloud enabled data logger. Multiple devices can be selected, by holding the CTRL or Shift key and either selecting additional devices or pressing the arrow keys.
2. On the Device tab, in the Control group, click Disable Cloud Monitoring. Users can also right-click on the device and select Disable Cloud Monitoring in the context menu.
3. In the Connected Devices panel, once the data logger is disabled from the cloud, the cloud icon in the cloud column will disappear.



Viewing Cloud Data

There are several options for viewing and monitoring cloud data.

1. From a mobile device, scan the QR code in the Cloud Options menu within the MadgeTech 4 Software.
2. In the MadgeTech 4 Software, on the Device tab, in the Control group, click View Cloud Data. Users can also right-click on a cloud enabled device and select View Cloud Data in the context menu. This will display the cloud data in a web browser on the local PC.
3. In the Cloud Options menu within the MadgeTech 4 Software, click the link on the bottom of the Cloud tab.
4. Go directly to cloud.madgetech.com in a web browser. No software required.



MadgeTech Cloud Services Troubleshooting

Why is my data not showing up in the cloud interface?

If you are unable to view data, confirm that the logger has been successfully enabled for cloud monitoring and is actively logging in real-time.

I am monitoring data loggers in a different time zone. Which time zone is the cloud displaying?

Cloud data is displayed on remote devices with the recipient's local time zone.

I started my device in real-time, shut down my computer, and now the cloud is saying the data logger is disconnected. Why can I not see my data?

If a logger was configured for cloud viewing using MadgeTech 4 Data Logging Software, the software must be up and running on the central PC in order to transmit data to the MadgeTech Cloud.

My reading rate is set to 15 seconds. Why is my cloud data not refreshing that fast?

MadgeTech Cloud Services is set to refresh every 60 seconds. However, expanding the graph will display each reading taken at the user selected reading rate.

I am recording with a multi-parameter device. How do I view the other parameters?

Clicking on the current reading will scroll through the various parameters being recorded.

I want to view my data in Fahrenheit, not Celsius. Can I change this?

Yes. Users can customize display units on the Preferences page.

Why is the Group Add button on the Logger Groups page not clickable?

All the Groups must be collapsed in order for the Group Add button to be active.

Why am I not seeing the change I just made?

Changes are entered in your browser which go to the web server, to the Cloud Relay (or MT4) and then to the logger. After the logger has made your changes, then the changes are in turn recorded by the website. The round trip of changes takes some time.



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