# RF140

## Wireless High Temperature Data Logger

# Product User Guide

To view the full MadgeTech product line, visit our website at **madgetech.com**.

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WE BUILD DATA LOGGERS

# Product Overview

The RF140 is a wireless high temperature data logger that communicates using Bluetooth® Low Energy (BLE). The device can be used with:

- MadgeTech 4 Software (version XXXX or newer)
- MadgeTech App (version XXXX or newer)

## RF140 Operating States

*Your logger will arrive in sleep mode*

### Sleep Mode

- Bluetooth is inactive
- The device will not appear in nearby Bluetooth device lists
- Used to conserve battery life for shipping and long-term storage

### Activate Mode

- Bluetooth is active and discoverable
- The device can pair or connect to a PC or the MadgeTech App

### Connected Mode

- The device is either paired to a PC or the MadgeTech App
  - When paired to a PC, the RF140 will remain in **Connected Mode** indefinitely
  - When paired to the MadgeTech App, the device will automatically enter **Sleep Mode** after two minutes of inactivity.

### Automatic Sleep

- If the RF140 is not paired or actively connected for two minutes, it will automatically return to **Sleep Mode** to conserve battery life.
- If the RF140 is paired to a Windows computer, the device will remain active and will not enter **Sleep Mode** unless manually unpaired.

### Using the RF140 Magnet

The included magnet is dual purpose for both activating and unpairing the RF140.

**Activating the RF140**
To place the RF140 into Active Mode, swipe a magnet across the side of the logger until the red LED blinks

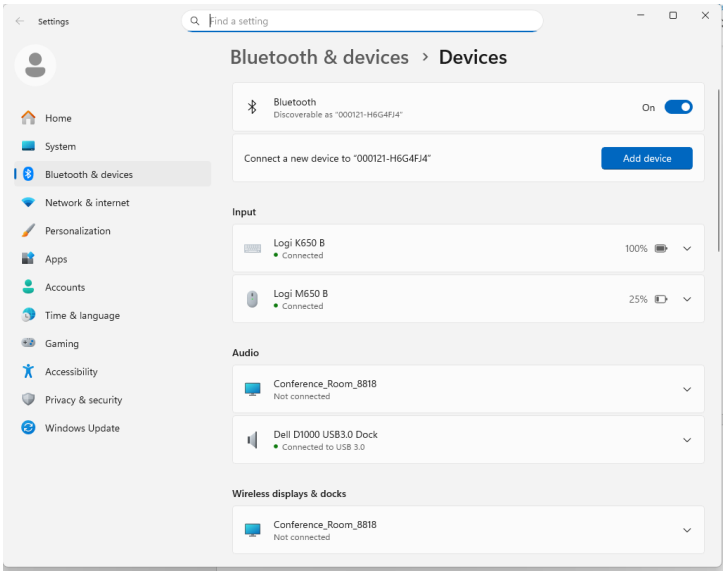
**Unpairing the RF140**
To unpair the RF140 from a PC, swipe a magnet across the side of the logger until the red LED blinks

***Note:*** *Unpairing the RF140 does not remove it from the PC. To fully remove the device, select* ***Remove device*** *in the Windows Bluetooth settings.*

# Pairing your RF140 to Your PC for use with MadgeTech 4

## Step 1: Enable Bluetooth on Your Computer

- Open your computer's Bluetooth settings
- Ensure Bluetooth is turned on
- Set your computer to discover/search for devices

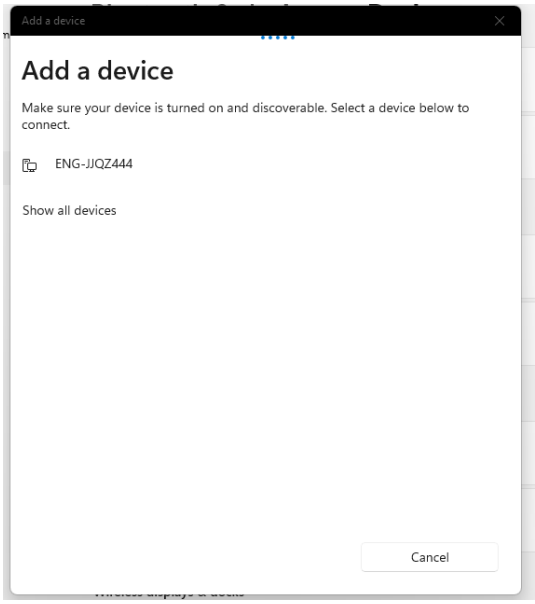



## Step 2: Activate the RF140 Bluetooth Signal

If the RF140 is in sleep mode:

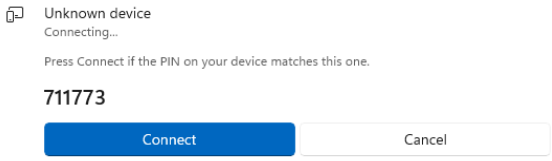
- Swipe a magnet across the side of the logger until the red LED blinks
- Wait a few moments for the device to appear

***Note:*** *Depending on your version of Windows, you may need to select "Show All Devices."*



# Step 3: Pair The Device

- Select the **RF140** from the list of available Bluetooth devices
- A pairing code may appear on your screen; this can be ignored
- Click **Connect**




- Once connected, the RF140 is paired to your computer.

***Note:*** *Windows supports an unlimited number of paired devices, but a maximum of seven active Bluetooth connections*

***Important:*** *If the RF140 is unpaired using the magnet while still paired in Windows Bluetooth settings, Windows may continue displaying the device as paired even though the logger has internally unpaired. In this case, MadgeTech 4 will not be able to connect.*

## Recovery Steps

1. Remove the RF140 from Windows Bluetooth settings
2. Unpair the logger using the magnet
3. Pair the device again

## Connection Limitations:

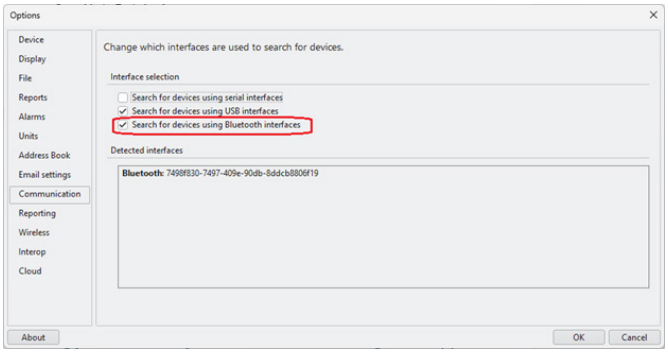
The RF140 cannot maintain simultaneous connections to both the MadgeTech App and MadgeTech 4 software.

## Automatic Reconnection

- Pairing only needs to be completed once
- After the initial setup, the RF140 will automatically reconnect whenever:
  - The logger is in Connected Mode
  - The logger is within Bluetooth range of the computer

# Step 4: Open MadgeTech 4

- Open MadgeTech 4 software
- Navigate to **File** > **Options** > **Communication** to confirm that the **Search for Devices using Bluetooth Interface** checkbox is selected.




- Return to the **Connected Devices** panel and wait a few moments for the RF140 to appear

## From here, you can:

- Configure logger settings
- Start and stop data logging sessions
- Download recorded data

**The RF140 functions like any other MadgeTech data logger within the software.**

# Using the RF140 with the MadgeTech App

## Step 1: Install and Open the App

- Install the MadgeTech Mobile App from the Apple App Store or Google Play.
- Open the app.

The Devices screen appears by default.

GET IT ON Google Play

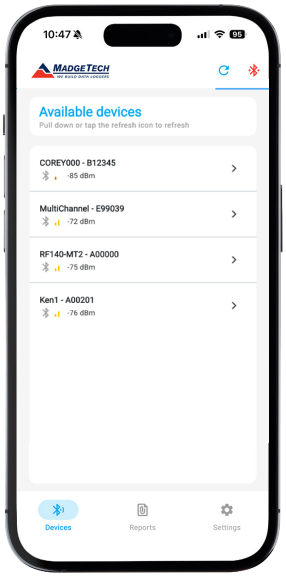
Download on the App Store

## Step 2: Activate the RF140 Bluetooth Signal

- If your RF140 is in sleep mode, swipe a magnet across the side of the logger until the red LED blinks
- Ensure Bluetooth is enabled on your phone

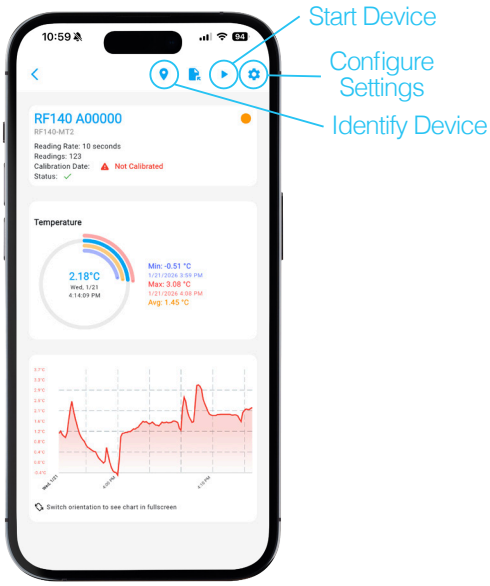
## Step 3: Locate the Device

1. View the **Available Devices** list within the app.
2. Pull down or tap **Refresh** if the device does not appear.




## Step 4: Connect and Configure

1. Tap the desired device.
2. Configure alarms, triggers, and start/stop settings.
3. Save settings and start the device.




***Note:*** *The mobile app display does not update in real time. To refresh the displayed data, swipe down on the screen with one finger to resync the device. There is no need to exit the screen.*

# Need Help?

**If you have questions about the RF140 or MadgeTech 4 software, please contact MadgeTech Technical Support.**

Contact our friendly Customer Support Team at **(603) 456-2011** or **support@madgetech.com**.

# Scan to See RF140 Videos

**Meet the RF140**

**RF140 Overview**

**RF140 Quick Start Guide**

## Ordering Information

| | | |
|---|---|---|
| **RF140-1** | PN 902735-00 | Wireless High Temperature Data Logger with 1" Probe |
| **RF140-2** | PN 902736-00 | Wireless High Temperature Data Logger with 2" Probe |
| **RF140-5.25** | PN 902737-00 | Wireless High Temperature Data Logger with 5.25" Probe |
| **RF140-7** | PN 902738-00 | Wireless High Temperature Data Logger with 7" Probe |

For Quantity Discounts call (603) 456-2011 or email **sales@madgetech.com**

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