

# RFL™

## LoRa-equipped data logger for DicksonOne

This Quick-start Guide presents an overview of the Dickson RFL data logger, with setup and connection instructions to get your device up and running with your LoRa gateway. You can then [register the data logger](#) in DicksonOne to view data online, configure alarms, and much more.

In order to register RFL data loggers in your DicksonOne account, please make sure that your RF gateway is connected to the Internet and registered to your DicksonOne account to simplify the process.

### Safety instructions



The latest safety instructions document is available for download from the Dickson website. Flash this QR code to access the document



### What's in the box



**RFL data logger & replaceable sensor**

*Your sensor may differ from this image*



**Wall mounting plate & hardware**

*The plate is delivered attached to the data logger*



**2 x AA batteries**



**USB OTG cable**

**Note:** RFL data loggers are designed to run on batteries, but you can also power the devices with both an AC adapter (part: A075) and AA batteries. The benefit of combining the two power sources is that the AA batteries have a longer battery life when an AC adapter is also plugged in.

In any case, AA batteries must always be installed and have power remaining in them in order for the data logger to continue to collect and store data.

## RFL data logger setup: automatic pre-registration

**Prerequisite:** Before adding an RFL data logger to your DicksonOne account, you must first set up and register an RF gateway. Once that is done, setting up an RFL data logger is quick and easy!

1. Remove the battery cover and insert the batteries into the data logger, making sure to respect the indicated polarity (+/-).
2. Plug in the replaceable sensor and ensure that it is firmly connected.
3. Press the power button on the side of the data logger and wait for 30-60 seconds while the device boots. The data logger is recognized automatically by your RF gateway and connects to DicksonOne.
4. In your [DicksonOne.com](https://dicksonone.com) account, click on **+Add Hardware** in the upper right-hand side of the screen.
5. Select **Add an RFL** (the red circle with a number indicates the number of devices that have been automatically identified by your account through your registered RF gateway)
6. If one or more data loggers are displayed on the page, the 6-digit number in the illustration should match the 6-digit code displayed on your device's screen so you know which device you're configuring.

The serial number is also provided online and on the back of each data logger.

7. Enter the following information for your data logger:
  - Device name
  - Location
  - The default settings for your company are applied. Optionally, you can click on **Edit** to apply other settings (such as sensor reading interval or display unit).
  - Optionally, add names for each sensor channel and apply an alarm template to each one.
8. Click on **Add Device**
9. You can repeat this process to add other data loggers, or navigate to the data logger you just configured by clicking on its name in the **Recently Configured** pane on the right-hand side of the screen.

## Manually claiming a data logger not displayed in DicksonOne

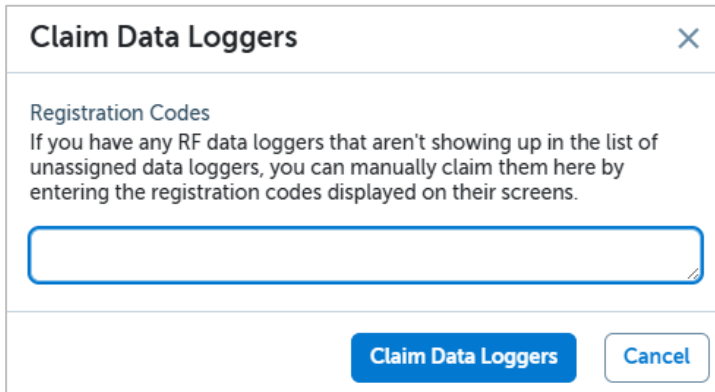
If a 6-digit code is displayed on the RFL data logger screen, but the device does not automatically appear in your DicksonOne account on the **Unassigned Devices** page, you may need to claim it manually.

First, double-check to make sure that your RF gateway is registered in your DicksonOne account and that the gateway is connected to the Internet. Then, refresh the **Unassigned Devices** page in DicksonOne and see if the data logger appears on the screen.

If not, it is possible that no gateway is registered in your account, or there may be a gateway conflict (e.g. two RF gateways belonging to different customers having overlapping wireless coverage), in which case DicksonOne cannot automatically determine which account owns the data logger in question.

Follow these steps to claim the data logger manually:

1. Go to your [DicksonOne.com](https://DicksonOne.com) account and click on **+Add Hardware → Add an RFL → Claim Missing Data Loggers** in the upper right-hand corner of the screen.
2. Enter the 6-digit code displayed on the data logger screen into the field.

The image shows a web-based dialog box titled "Claim Data Loggers" with a close button (X) in the top right corner. Inside the dialog, there is a section titled "Registration Codes" with the following text: "If you have any RF data loggers that aren't showing up in the list of unassigned data loggers, you can manually claim them here by entering the registration codes displayed on their screens." Below this text is a large, empty text input field with a blue border. At the bottom of the dialog, there are two buttons: a blue button labeled "Claim Data Loggers" and a white button with a blue border labeled "Cancel".

You can enter multiple codes at once, using a comma to separate each code.

3. Click on **Claim Data Loggers**
4. The data loggers will now appear in the list and you can proceed with configuration as described previously.

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