

# NFC card reader

For LFC biodigesters



## About

The NFC card reader on LFC biodigesters allows you to identify the source or type of waste food placed into the LFC biodigester. This is accomplished by presenting different NFC cards or tags to the card reader, with each card or tag being associated with a particular data set.

The NFC card reader is a standard feature on LFC-1000 biodigesters and will be a standard feature on all LFC-300 and LFC-500 biodigesters sold after March 2022. A retrofit kit allows you to install this on any LFC-200, LFC-300, or LFC-500 biodigester sold after January 2019.

Designed, developed, and manufactured by Power Knot in Silicon Valley, California.

## Features

- Can use NFC cards (including credit cards) and NFC tags to operate the reader
- Identify the person using the machine, the source of the waste, or the type of waste
- Automatically create reports on the color touch screen of the LFC biodigester and on the LFC Cloud that are broken down by the card or tag that is used
- Show the carbon footprint for each category of waste
- One card is dedicated to be the service card

## Benefits

- Allows you to analyze the type of waste and dispose of it in one machine
- Data on types of waste help to reduce that particular waste
- Reports enable and encourage efficiencies within the organization
- Reports assists with the procurement of food and management of the supply chain
- Users can be billed for the amount of waste they have put into the LFC biodigester
- The data on the time of day that waste is generated assists with control and accounting
- For the LFC-1000 biodigester, this prevents unauthorized disposal of waste into the biodigester



## Usage

To use the feature, the operator presents an NFC card or NFC tag to the card reader. For the LFC-1000 biodigester this must be presented to operate the bin lifter. For other LFC biodigesters, the operator can scan the NFC card or tag before, during, or after opening the door and depositing the waste.

The administrator of the LFC biodigester must authorize in advance any NFC card or tag that will be used. You can use up to 100 cards and you assign a name to each card.

The names you assign can be used in a variety of ways:

- the name of the operator (for example, Jane, John, etc.)
- the source of the waste (for example, Lido restaurant, Veranda restaurant, etc., or Ward 1, Ward 2, etc.)
- the type of the waste (for example, fruit, vegetables, etc.)

When the service card is used, the weight of any waste put in the biodigester is not counted.

## Configuration

Power Knot supplies NFC cards with each LFC biodigester or retrofit kit. These cards are designed for use with the card reader and each card is unique.

The administrator of the LFC biodigester configures the cards that are authorized for use through the touch screen user interface. You then assign a name that will be used on the reports for when that card is used. The cards have space for you to write the food type or source.



If a card is lost, you can replace it with another card without disrupting the statistics.

## Viewing Usage on the Touch Screen

You can access the statistics on the touch screen at any time and can see the totals ingested into the LFC biodigester and the amounts by card.

These data are shown numerically and graphically by the hour, day, week, month, and year.

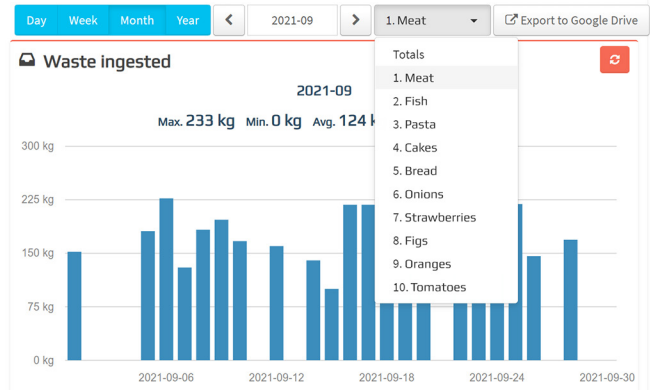
Card Data		Oranges		Input counts
-	9	+	+	
		Waste		
		lb	kg	
Today		530		10
This week		2,873		73
This month		14,869		324
This year		170,684		38,481

Next
Exit

## Viewing Usage on the LFC Cloud

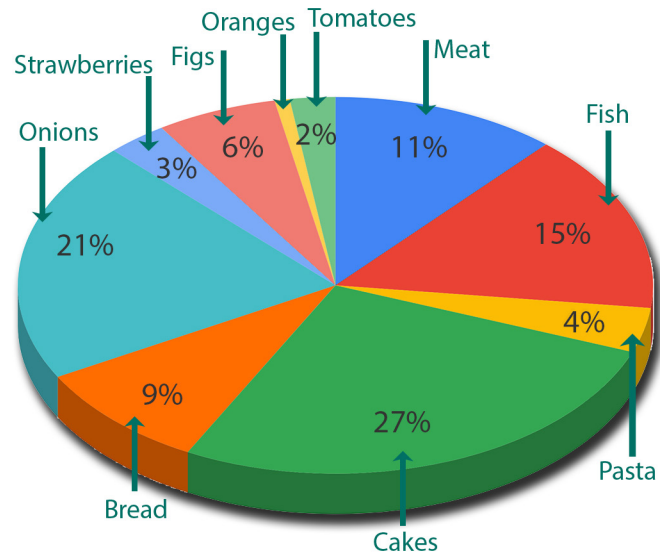
All LFC biodigesters can automatically connect to the LFC Cloud over a simple internet connection. All statistics on usage are securely sent to the servers. You can access the LFC Cloud from any phone, tablet, or computer without having to install an app.

You can see the usage of the LFC biodigester by waste type or source.



## Creating Reports

With the LFC Cloud, you have one click ability to export data to Google Drive. You can incorporate the data into reports for stakeholders.



## Sold, Serviced, and Supported by:



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