

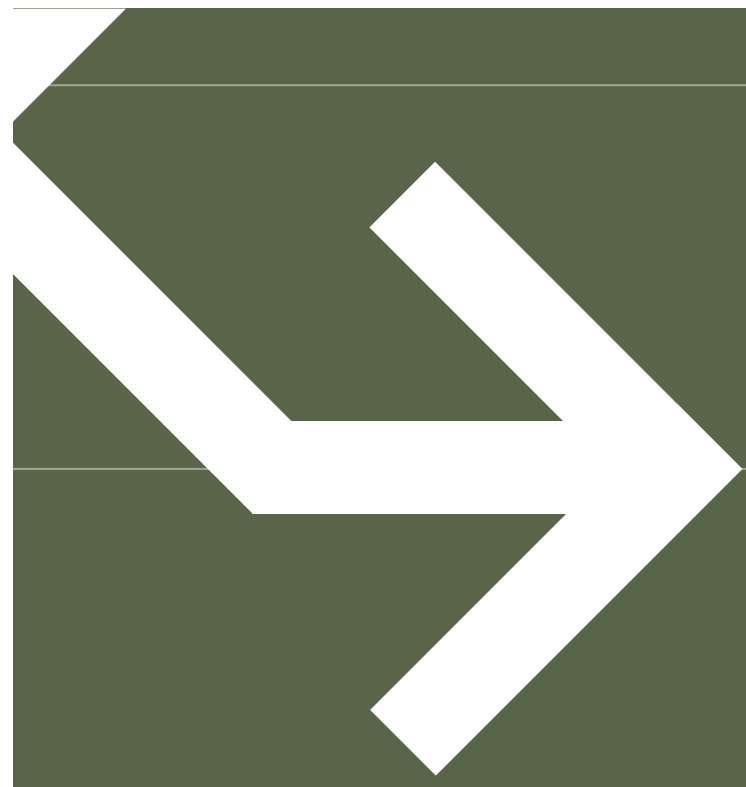


APPLICATION & PRODUCT GUIDE

# Tinytag<sup>®</sup> Data Loggers

GATHERING QUALITY DATA

## Compost Monitoring Systems



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## Compost



## Systems for monitoring and controlling temperature of compost

Systems and procedures in composting have to be developed to ensure that the product produced is of the highest quality. They also need to have stringent protocol controls in place to meet industry compliance standards set down under PAS100.

During composting, it is critical to ensure the right temperature for optimum productivity. Wrong temperature can delay or even destroy the compost process.

The use of Tinytag® data loggers and probes to monitor temperature during the composting process and the analysis of the recorded data allows one to decide whether the airflow needs adjusting to maintain the correct temperature.

## TRADITIONAL SYSTEM

**Tinytags®** are easy to use. Connect the logger to your PC using a USB or serial cable, use **Tinytag Explorer** software to configure the logger and leave it in place to record the data. Configuration options allow the user to set the time interval for each recording, define alarm limits and start options.

To retrieve the data re-connect the logger to your PC to view in a convenient graph format. It can then be saved and exported to other applications. Alternatively use Tinytag Shuttle with an HP iPAQ if you need to leave the loggers in position.

**Tinytag Plus 2**

Robust, battery operated and waterproof these loggers have a wide range of sensors and large memories for long term monitoring. Simple to use, these units are ideal for recording temperatures for process monitoring and validation.

**Compost Probe**

A cost effective, waterproof and robust probe custom-designed for compost applications. With moulded handle, 1m stainless probe and the option to monitor surface as well as core temperature.

**Tinytag Explorer**

Tinytag Explorer is the principal software for all **Tinytag** data loggers. It is used to configure and launch the loggers. Upon re-connection it displays the data they gather in clear graph and table formats. Windows based and user friendly it allows data to be exported to other applications for ease of use in reports and research projects.

**Tinytag Shuttle**

This pocket PC software enables a user to offload, and restart **Tinytag** loggers in remote or difficult to reach locations without the need for a laptop or for returning loggers to a desktop PC. Once data files have been offloaded from a logger to the pocket PC, they can easily be transferred to a desktop, or a conversion feature in the software enables to user to view data on the pocket PC itself.

## WIRELESS SYSTEM

The new **Tinytag® solution** uses a revolutionary **self-configuring radio mesh network** to send 'real time' information direct to the **Tinytag Explorer Software**. Fan control boxes allow immediate remedial action to automatically turn on/off the aeration systems and optimize the process control and production. This system also has the ability to compensate for any obstruction in the network by relaying the data via other transmitters. The data can then be collated by the base station ready for presentation in various formats and can also be accessed via the internet.

- Measures temperature of compost at surface and core
- Self configuring for easy set up
- Battery operated
- Automated central data collection (no downloading required)
- Can cover large remote areas monitoring 100's of points
- Optional control and logging of aeration system
- Robust network

**Benefits of using wireless technology for composting:**

- Fast access to information
- Quick response
- No manual downloads
- Visibility
- Durability
- Labour saving
- Local recording



Install Tinytag Explorer software and connect data loggers to PC



Place Data Logger in position to record and connect probe if required



Connect Data Logger to PC, download and display the data



TINYTAG EXPLORER SOFTWARE



TINYTAG SHUTTLE



TINYTAG PLUS 2



COMPOST PROBE



FAN CONTROL RECEIVER



RADIO RECEIVER



RADIO DATA LOGGER