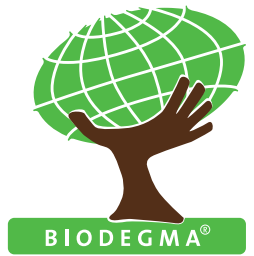


# Think **ENVIRONMENT.**

The quality choice in membrane composting



## **METIS** – intelligent temperature monitoring

# METIS – intelligent temperature monitoring

With more than 60 operational reference plants and 20+ years of expertise in the planning and setting up of aerobic waste treatment facilities, we know how important reliable process management is. The ideal combination of oxygen supply, water content and temperature is a must for maximum plant performance and output. Among these maintaining the correct temperature is the key parameter in the composting process. While temperatures above 55°C are required to kill off harmful germs and bacteria reliably, one should not exceed 70°C in order to provide ideal conditions for the microbiological organisms involved in the composting process.

In line with applicable EU directives, Schedule 2 of the German Ordinance on Biowaste (BioAbfV) requires plant operators to implement a system ensuring automated, and unmodifiable recording and documentation of the process temperature profile as evidence of effective hygienisation. To meet these requirements, plant operators need a temperature control system designed to supply continuous process temperature data allowing them to make early adjustments to the process parameters if required.

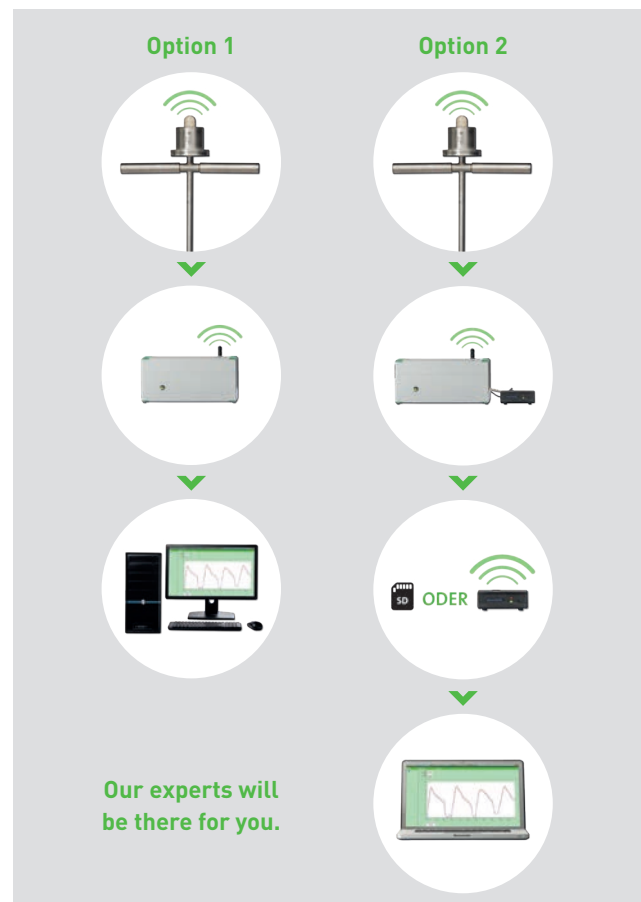
In introducing METIS, an intelligent temperature monitoring system for composting plants, BIODEGMA offers a pioneering new way of in-process control. Designed in-house as a full-service solution, METIS is a universal system offering exceptionally low installation, operation and maintenance costs while requiring virtually no assembly work. METIS allows for easy temperature measurement, control and documentation.

Made from corrosion-resistant stainless steel, the fully sealed measuring probe is designed to perform reliably in an aggressive composting environment and under all weather conditions. The particularly thick wall adds extra durability. The probe comes in a standard length of 1.5 metres, but can be customised to suit any individual needs. The base station is equally robust and guaranteed to work reliably at outside temperatures ranging from -30°C to +45°C. Additional protective features are available depending on the place where it is to be installed.

Designed to deliver ultimate performance, our METIS temperature control system integrates seamlessly into any existing BIODEGMA plant. But it is also a powerful stand-alone system. METIS is particularly well suited for classic windrow composting: featuring two measurement points, one for surface and one for core temperature, a single probe per windrow is sufficient.

**Simplify your process management with METIS – the easy-to-use and versatile temperature monitoring system engineered by BIODEGMA. Get in touch!**

## METIS – ONE SOLUTION, TWO OPTIONS



### Option 1 – direct base station to PC connection:

Using radio signals the measuring probe communicates measurement data to the base station, which forwards incoming data to the PC via cable connection. The software suite installed on the PC receives and processes the data. The user programme included in the package makes measurement data accessible for further editing.

### Option 2 – base station to data logger connection:

Using radio signals the measuring probe sends data to the base station. Communicating directly with the base station the data logger writes incoming data to the built-in memory card. Data readout is possible by inserting the removable data logger SD card in your PC or notebook or by wireless connection. Receiving the data the user programme makes it accessible for further editing.