

Digital carbon dioxide measuring device including temperature measuring

The ideal partner for your process monitoring!

It is important to have an overview of several parameters of your compost windrow during the decomposition process. That is why we offer a combination measuring device for our customers that is both compact and easy to use. Our device simultaneously measures the carbon dioxide concentration (CO₂) and the temperature.

The measurement of CO₂ and temperature can be carried out by any employee on the composting site itself. CO₂ and temperature are measured via two independent probes. The sensors have a fast response time, high accuracy and a long service life. The measured values are clearly shown on the display.



Technical data

Measuring range CO₂: 0 - 20 Vol.-%

Measuring range temperature: 0 - 600 °C

Scope of supply:

Digital carbon dioxide measuring device incl. battery and charger, hose set incl. filter tube, temperature probe, suction probe, silica gel

Windrow gas instrument

Secure the aerobic rotting process.

You can obtain a meaningful overview of the decomposition process of biogenic materials by simultaneously measuring the oxygen (O₂), carbon dioxide (CO₂) and methane content (CH₄) of the compost windrow. As oxygen is consumed, carbon dioxide is formed and, in the case of undesirable anaerobic decomposition, methane is also produced during the decomposition process as the microorganisms breathe. Especially in the case of unaerated compost windrows, the measurement of windrow gases is important in order to guarantee a sufficient oxygen supply and to better plan turning intervals. If the oxygen content drops too low, the process can collapse. In addition to high odour emissions, this also produces climate-relevant gases such as methane (CH₄).

With our electronic windrow gas instrument, operators like you can get an overview of current process conditions. The instrument measures up to seven different gases simultaneously and is also easy to use and low-maintenance.

Our standard windrow gas instrument is equipped with three measuring sensors for measuring the most important composting parameters: oxygen (O₂), carbon dioxide (CO₂) and methane (CH₄). The remaining sensor positions can be equipped with various sensors such as hydrogen sulfide (H₂S) or ammonia (NH₃). Additional sensors on request!

Technical data

Measuring range standard sensors

Oxygen O ₂ :	0 - 25 Vol.-%
Carbon dioxide CO ₂ :	0 - 100 Vol.-%
Methane CH ₄ :	0 - 100 Vol.-%

Measuring range optional sensors

Ammonia NH ₃ :	0 - 200 ppm
Hydrogen sulfide H ₂ S:	0 - 100 ppm

Scope of supply:

Measuring device with suction probe, hose set, inductive charger, silica gel

