

T-Mo Compost Technologies

Oxygen Measurement



Composting is an aerobic process (with oxygen), so it's a well ventilated rental prerequisite for a working breakdown.

In the course of the degradation process, oxygen is "breathed" by the microorganisms into CO_2 – the measurement of these two gases thus provides very good information for an aerobic degradation process.

When composting, oxygen is essential to maintain a balanced flora of microorganisms.

By "breathing" the microorganisms, oxygen is consumed and CO_2 is formed. If the O_2 content sinks too low, the rent is to be aerated (by reacting / by ventilation system). This ensures optimal degradation.

With our simple O₂ measuring device, you will quickly gain insight into your rotting process. The device is particularly easy to handle and maintain.

Temperature



Safe process control without overheating

Temperature is the most meaningful parameter for the compost – material suitability, rupture condition etc. can be judged by the temperature development. The legislator also provides for a working-day recording of the temperature as proof of sanitation.

Second Thermometer

The digital second thermometer is “the absolute compulsory item for every composter”! Temperatures up to 65°C should be reached, but not exceeded. In addition, according to the legal requirements, the temperature of the compost rents must be documented every working day.

With our digital second thermometer, the specialist gets a quick overview of his composts.

- Measuring range: -50 to + 1150 °C
- Probe: stainless steel standard length 800mm long (1200 mm on request)



Rent Gas Meter

Particularly in the case of unventilated compost rents, the measurement of the rental gases is particularly important in order to ensure a sufficient supply of oxygen.

By “breathing” the microorganisms, oxygen is consumed and CO₂ is formed. If the O₂ content sinks too low, the process can tip over if not ventilated. In addition to high odor emissions, climate-relevant gases such as methane are also produced.

With ALTAIR® 5X

gas meter, you as the operator can quickly get an overview of the current process conditions. The device simultaneously measures up to 5 different gases and is also easy to use and requires little maintenance.

Technical Data

Sensors:

- Methane (CH₄)
- Oxygen (O₂)
- Carbon Dioxide (CO₂)

Expandable to:

- Ammonia (NH₃)
- Hydrogen Sulfide (H₂S)



T-Mo soil and compost laboratory

SKW 500 – Kit



Combining the accuracy of the Soiltest 10 Photometer with the simplicity of the Palintest soil test methods, the SKW 500 provides agronomists, soil scientists and farming professionals with a robust, portable soil laboratory for macronutrients and micronutrients.

The Complete Soil Kit includes sufficient extraction and reagent tablets for 50 of all the basic tests (pH, lime, NPK) plus magnesium and calcium as well as the trace elements.

The SKW 500 includes the Multiparameter Pocket Sensor, as well as the Bluetooth-enabled Soiltest 10 Photometer.

The laboratory gives the farmer and gardener prompt answers about current conditions in the ground. No waiting for the laboratory analysis. Nitrogen in the various forms or the pH value can be measured exactly. The fertilization can be specified and optimized. The environment is spared. Likewise, the composter needs quick response about his product. Immature compost can cause great damage. Controlled produced, mature compost can work wonders.

Precision pH

PH is a crucial factor in composting, liming, tillage and choice of crop. To avoid shortages, the pH value should be as high as possible on the field or directly be measured after sampling. This causes many sources of error excluded from the outset. Besides, the practitioner can immediately take action without waiting for the result of an investigation to have to.



Technical Data:

Accuracy: +/- 0.02 pH

Scope of Delivery: 1 pH meter incl.

Solution: 0.01 pH

Span: 0-14 pH probe, 2 buffer capsules with container

Electricity: 9V battery JEC 6F22

Moisture Meter:

For optimum composting, optimum moisture content is essential. Required – moisture content should be in the range of 40-60% and should be also controlled continuously – important a long probe over too to get the moisture inside the rental information.

Soil Moisture Meter

Application

Used for measuring moisture content of soil, sand and cement, especially for soil moisture testing . It applicable of agriculture planting, building, industry production, science experience and other relevant industry.





Specifications

Display: 4 digital LCD
Measuring range : 0-50%
Operation condition:
 Temperature: 0-60°C
 Humidity: <85%RH
Resolutions: 0.1
Accuracy: ± 2%n
(Non- saturation condition)
Power supply:
 4x1.5 AAA size (UM-4)
Dimensions:
 Main Unit: 140mm×60mm×22mm
 Sensor: 445mm×40mm×20mm