

SOIL GAS ANALYSIS

You will return to the contents of P1 SOIL by clicking the pictogram



Soil gas analysis can yield a lot of information concerning the soil environment. Using a 'piercing probe' and an oxygen content meter the growing conditions for shrubs and trees can be defined. And who would not want to be able to measure the extent of soil pollution in an area without time-consuming soil drilling?

14.35 Soil oxygen content analysis system

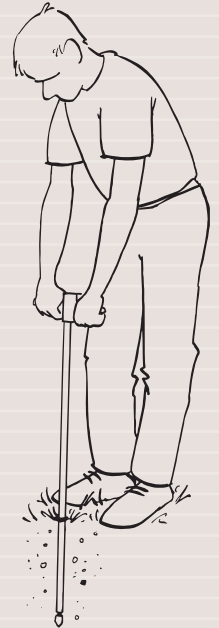
This system consists of a short soil probe and an oxygen content meter. The probe is pushed into the soil manually.

Once at the right depth the probe is lifted slightly. In this way the probe opens itself. Next, the oxygen content meter is connected to the probe and, using a bellows, soil gas is drawn through the meter and the O₂ content is measured, and with that an important growing parameter for trees and plants, can be read. The probe has a small dead volume, so that a measurement can be executed

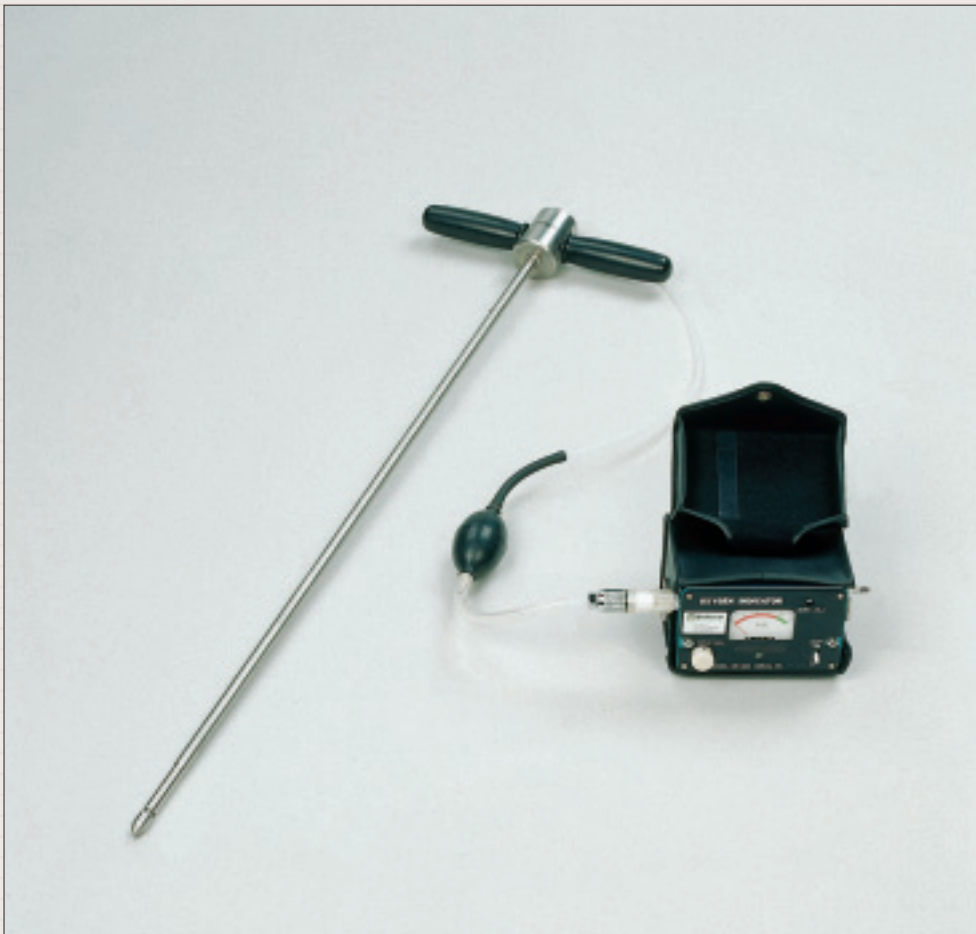
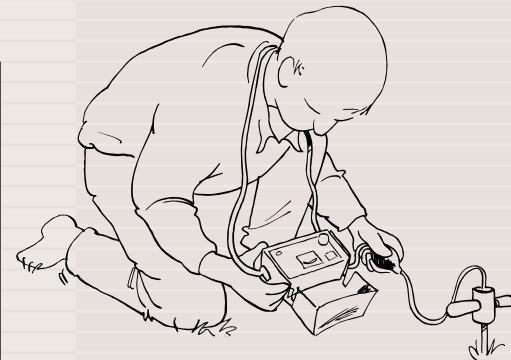
accurately within minutes. The oxygen content meter operates with an electrochemical cell. This cell has a limited service life (about 1.5 years), but can be calibrated easily with air (21%) and with a gas free of oxygen (natural gas, nitrogen).

P1.66

The opening of the soil air probe.



Drawing-in and analysing the soil gas oxygen content.



Soil oxygen content analysis system

BENEFITS

14.35 Soil oxygen meter

- Sturdy and very simple to operate soil probe
- Immediately shows living conditions for roots
- Meter allows measurements up till 0% O₂



www.eijkelkamp.com