

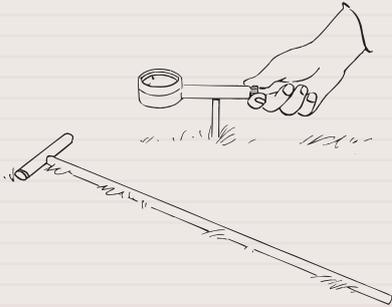


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TENSIOMETERS

P1.63

Pre-setting the tension on the quick draw tensiometer.



The tensiometer is fitted on the tensiometer tube.



14.04.03 Standard tensiometers

The standard tensiometer consists of a clear transparent plastic tube with a ceramic cup at the bottom end and a manometer at the top. The standard tensiometer is delivered in various lengths allowing the execution of simultaneous measurements at various depths in the root zone. For pre-drilling special auger sets can be provided.

14.04.04 Jet-fill tensiometers

The Jet-fill tensiometer basically has the same components as the standard tensiometer but is equipped with a reservoir and a refill mechanism. At a push of the button the Jet-fill mechanism instantly injects water from the reservoir into the body of the tensiometer and removes accumulated air. This tensiometer can be provided in different lengths as well.

14.04.05 Quick draw tensiometers

The quick draw tensiometer is a small tensiometer that can easily be moved and, using the auger for

pre-drilling, placed into the soil. The small diameter and the super porous ceramic cup and the possibility of pre-setting the tension, allow a measuring period of only a few minutes. After each measurement the tensiometer can be stored in a carrier cylinder in which it is kept humid allowing immediate use in case of a next measurement.

14.50 Electronic tensimeter

The electronic tensimeter is a portable pressure sensor in a bag for measurement of the moisture tension in the soil, measured through a tensiometer tube placed in the soil. The measuring device can be moved from tensiometer tube to tensiometer tube allowing an unlimited number of measurements over a short period of time. The hypodermic needle of the tensimeter is fitted on the tensiometer tube through the silicon stopper after which the moisture tension can be read. The meter has a measuring range of 0-1000 hPa with an accuracy of less than 2%. Tensiometer tubes are available in various lengths.



Standard and Jet-fill tensiometer



Quick draw tensiometer



Electronic tensimeter