

TENSIOMETERS

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P1.63

14.04.08 Tensior 3 with electronic pressure transducer

The Tensior 3 is a tensiometer with an electronic sensor giving a continuous measuring signal (in hPa). The measuring results are read with a read-out device or datalogger. The tensiometer can only be used in frost free periods, because the pressure sensor is located in the top end of the tensiometer. The tensiometer is fitted with an over-pressure safety and is available in various lengths. The Tensior 3 has a measuring range of -100 till +700 hPa and an output signal of -10 till +70 mV (+/- 3 mV). Power supply is 10.6 Vdc and the current consumption is 1.3 mA. The tensiometers are supplied including cable and calibration certificate.

14.04.09 Tensior 4 with electronic pressure transducer

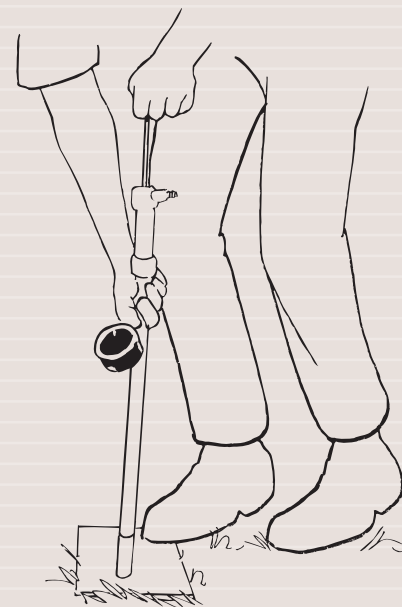
In case of the Tensior 4 the transducer is located at the bottom end of the tensiometer tube allowing it to be used also in case of frost (frost not too deep into the soil). The pressure transducer can simply be combined

with another length of tensiometer tube. This allows measurement at various depths. The Tensior 4 can be used for measurements in different positions. The Tensior 4 has a measuring range of -1000 till +850 hPa and an output signal of -100 till +85 mV (+/- 3 mV). Power supply is 10.6 Vdc and current consumption 1.3 mA.

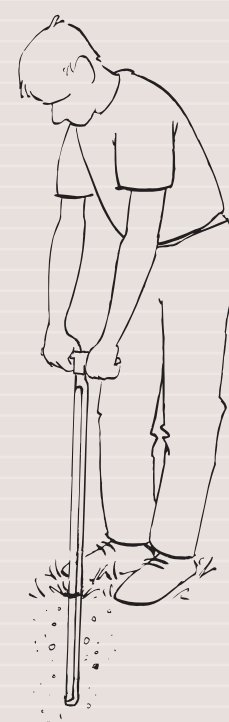
14.04.10 Tensior 5 mini tensiometer with electronic pressure transducer

The mini tensiometer Tensior 5 is characterized by its small ceramic cup (diameter 5 mm and a surface area of 0.5 cm²) and the short length of the tube causing only minor disturbance of the soil. The mini tensiometer is used in particular for (point) measurements in soil columns, small lysimeters and pots. The meter yields fast and reliable measuring results and can also be used for measurements in different positions. The Tensior 5 has a measuring range of -1000 till +850 hPa and an output signal of -100 till +85 mV (+/- 3 mV). Power supply is 10.6 Vdc and current consumption 1.3 mA.

The air is sucked from the tensiometer after the meter is filled with water.



The hole for the tensiometer is pre-drilled using a gouge auger.



Tensiometers Tensior 3 and Tensior 4



Mini tensiometer Tensior 5



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