

Application Range

- ☒ Determination of soil water tension

Tensiometer

- ☒ Tensiometer-Standard
- ☒ Laboratory tensiometer
- ☒ Plug-in tensiometer with electrical pressure transmitter
- ☒ Plug-in tensiometer with manometer

Equipment / Features

- ☒ Refilling in the build-in position
- ☒ With electrical pressure transmitter or manometer
- ☒ Directly connectable with the data logger

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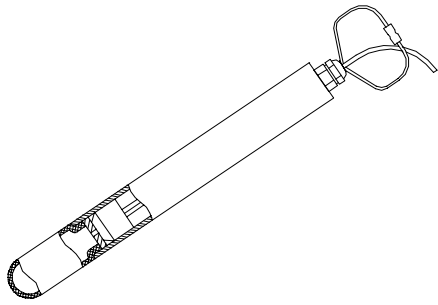
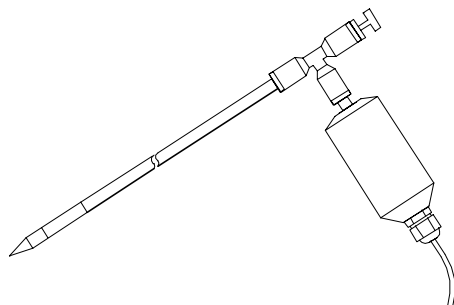
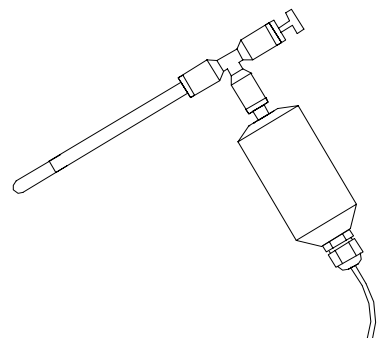
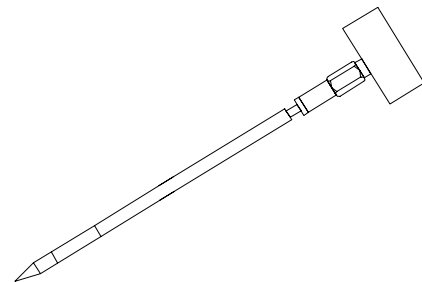
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Tensiometer Technical Data

Tensiometers are used for the determination of the soil water tension. The measurement of the soil water tension is effected by diaphragm (ceramic cup of the tensiometer) owing to the pressure compensation between the tensiometer liquid and the surrounding soil. The tensiometer liquid functions as transmitter of the soil water tension to the pressure transmitter. The offered tensiometers with pressure transmitter show the following common properties:

- **Refilling** in the build-in position, Tensiometer-Standard only with option refill equipment
- Pressure transmitter with stainless steel membrane, accuracy (lin., hyst., repr.) 0,5 %
- Integrated measuring amplifier (therewith directly connectable with the data logger)
- Power supply 7 V ... 14 V DC
- Output signal linear: 0 mbar soil water tension 1,5 V/1.000 mbar swt 0,5 V/1.000 mbar overpressure 2,5 V
- Air pressure compensation via cable

|  | Tensiometer-Standard | |
|---|------------------------------------|---|
| | Pressure transmitter | Directly mounted at the ceramic cup to guarantee operation during frost periods (the min. mounting depth during frost periods is 80 cm) |
| | Diameter (ceramic/shaft) | 35 mm |
| | Options | Shaft length, cable length, attachment plug , refill – equipment |
|  | Plug-in Tensiometer | |
| | Pressure transmitter | Mounted at the end of the shaft |
| | Diameter (ceramic/shaft) | 10 mm |
| | Options | Shaft length, cable length, attachment plug |
|  | Laboratory-Tensiometer | |
| | Pressure transmitter | Mounted at the end of the shaft |
| | Diameter | Ceramic: 6,25 mm shaft: 8 mm |
| | Shaft length | 90 mm |
| | Options | Shaft length, cable length, attachment plug |
|  | Plug-in Tensiometer with Manometer | |
| | Manometer | Mounted at the end of the shaft |
| | Diameter (ceramic/shaft) | 10 mm |
| | Option | Shaft length |

Modifications contributing to technical progress are subject to change without notice.

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