

new!

Tensiometer type ZB9602TMxxx

- ▶ Measurement of soil moisture through the identification of suction pressure. The suction pressure is the force with which water is being held in the soil or is available for absorption. This is the force that must be produced by the plant roots in order for water to be absorbed.
- ▶ The porous, clay tip of the tensiometer transfers water from within to the drier outer surroundings by means of capillarity, thereby, creating a sub-pressure within the sealed tensiometer tube. This sub-pressure is a measure of the moisture level and can be determined as a value or used directly to activate an electrical switch. The customary unit of measurement is hPa.
- ▶ However, a tensiometer also functions in dry air as long as evaporation can take place over the porous, clay chamber. Therefore, moisture levels can be measured even in coarse-grained or very loose substrate.
- ▶ Suction pressure measurements are largely independent of the salt concentration of the substrate or soil.

Typical Suction Pressure at Peat Substrates

30 - 40 hPa	very moist
50 - 120 hPa	moist
150 - 200 hPa	dried
>200 hPa	dry

Typical Suction Pressure at Open fields

(intermediate grade soil)

< 50 hPa	saturated
100 - 150 hPa	wet to moist
>200 hPa	start drying
200 - 500 hPa	Irrigation

Tensiometer electronic

FDA602TM1:



Screw cap for direct tensiometer connection with ALMEMO® connector and 7m cable.

Measuring range:	0 - 1000 hPa
Output:	0 - 10 V
Power supply:	12V via ALMEMO®-device

Tensiometer electronic

FD9602TM1:

without ALMEMO® connector and cable

Technical Data:

Measurement:	Measurement of soil moisture through the identification of suction pressure.
Measure range:	
Tensiometer:	0 ... 900 hPa
Electronic:	0 ... 1000 hPa

Insertion Tensiometer L2

ZB9602TML2:



Ceramic tip:	cone-shaped Ø 18 x 85
Total length:	350 mm
Insertion depth:	approx. 250 mm

Insertion Tensiometer LV

ZB9602TMLV:



Ceramic tip:	cone-shaped Ø 18 x 70
Total length:	220 mm
Insertion depth:	approx. 80 - 160 mm

Insertion Tensiometer LKV2

ZB9602TMKV2:



Ceramic tip:	cone-shaped Ø 18 x 45
Total length:	145 mm
Insertion depth:	approx. 50 - 120 mm

Surface Tensiometer FO

ZB9602TMKV2:



Sensor completely porous for measuring in thin layers of substrate.

Dimensions:	65 mm, Ø 70 mm
Sink deep:	approx. 30 - 60 mm

Surface Tensiometer FV

ZB9602TMKV2:



Standard model for use on capillary matting, for moist to moderately moist cultivation or for general measurement on moist surfaces.

Dimensions:	65 mm, Ø 70 mm
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10/2008 We reserve the right to make technical changes.