

# T5

## Tensiometer



The T5 Tensiometer is specially made for punctual measurements, for example in soil columns, small lysimeters or pots. With an active surface of only 0,5 cm<sup>2</sup> and a diameter of 5 mm the ceramic tip has all advantages of small dimensions: little soil disturbance, punctual pick-up and fast response. The special version T5x can achieve a measuring range of 200 kPa. The T5 can be installed in any position and orientation. Bubbles are easily detectable through the transparent shaft. The output signals are balanced.

### Typical Applications

- Punctual measurement of water potential
- Miniature lysimeter studies, together with micro samplers and soil temperature probes
- Determination of pF/wc and K/Psi in soil columns, soil cores or soil sampling rings
- Determination of leachate and capillary water movements
- Controlling irrigation
- Pot experiments
- Measurements in the upper soil horizons in the field
- Monitoring with data loggers
- Spot readings with the INFIELD7b

### Advantages

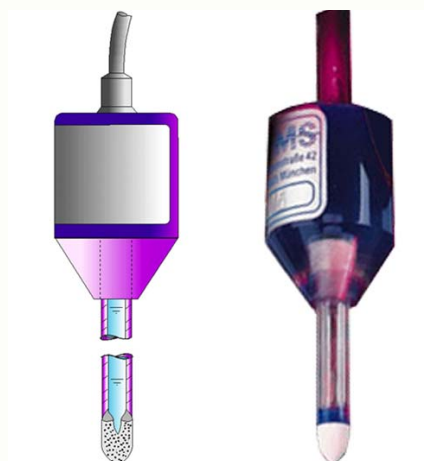
- Accurate zero-tension reading
- Fast response: With sufficient filling the T5 responds within 5 seconds to an applied air pressure change of 0 to 85 kPa
- Most standard T5 reach a range of at least 150 kPa when delivered.

### Limits

- Not for dry soils
- Not frost resistant
- In the field applications require impact protection

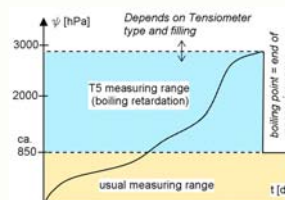
### Technical specifications

Measuring range	-100 ... +85 kPa
Output signal	-100 ... +85 mV
Accuracy	±5 hPa
Supply	typ. 10,6 VDC / 1,3 mA
Shaft	Ø 5 mm; acrylic
Sensor body	Ø 20mm, length 35 mm
Shaft lengths	2 ... max. 20 cm
Cable	1,5 m with 4-pin plug M12



### Special T5x

The T5x is the first pressure transducer Tensiometer that can reach an expanded measuring range of up to 200 kPa when it is specially filled. Response and filling though are reduced compared to a standard T5.



### Ordering information

### Art. no.

T5 standard	<b>T5-...*</b>
T5 expanded range	<b>T5x-...*</b>

\* Note required shaft length on an order

### Order separately

- Connecting cable  
**CC-4/5** (5 m), **CC-4/10** (10 m), **CC-4/20** (20 m)
- Extension cable  
**EC-4/5** (5 m), **EC-4/10** (10 m)



Product  
Info

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