

TENSIO 100

PORTABLE FIELD TENSIO-METER WITH MECHANICAL MANOMETER

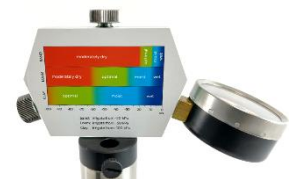
- Display of the current tension via a precision mechanical manometer
- Simple and cost-effective system
- Various standpipe lengths available
- Ideally suited for educational purposes, as the operating principle is easy to understand
- Quick installation without additional tools or significant effort
- Fast response time after the first measurement, thanks to the special ceramic and preload screw
- Quick interpretation of measured values thanks to the overview on the back of the tensiometer head, even without specialized knowledge
- Easy refilling in the field without tools
- Ceramic replacement possible in the field



APPLICATIONS

Ideal for short-term measurement campaigns with many measurement points, e.g.:

- for mapping current soil tension distribution
- for monitoring and optimizing irrigation conditions in agriculture
- as a reference for other sensors, e.g., soil moisture
- as a basis for soil sampling
- not suitable for long-term field use



DELIVERED AS A SET

The Tensio 100 is available as a convenient all-in-one kit for field use, consisting of:

- Tensio 100 Tensiometer
- Stainless steel pre-drill with a conical profile for easy installation and optimal soil contact of the ceramic cell
- Carrying case for easy transport of the tensiometer and pre-drill



TECHNICAL DATA

PARAMETERS	SPECIFICATIONS
Diameter Precision manometer	Ø 63 mm
Measurement range Precision manometer	0 ... -100 kPa
Measurement range Tension / Suction pressure	0 ... >+85 kPa
Output unit	kPa
Accuracy	1 kPa
Resolution	1 kPa
Data output	Manual reading
Operating temperature	0 ... 40 °C
TENSIO METER HEAD	
Material	Acryl
STANDPIPE	
Length	30 cm / 60 cm / 90 cm / customized upon request
Diameter	Ø 10 mm
Material	V2A stainless steel
CERAMIC	
Length	24 mm
Diameter	Ø 10 mm
Air entry point	>-85 kPa
Permeability coefficient	8.1 x 10 ⁻⁸ m/s
TENSIO METER TIP	
Material	V2A stainless steel
PRE-DRILL	
Length	30, 60 or 90 cm with a conical tip
Diameter	10 mm
Material	V2A stainless steel
DOUBLE CHAMBER INSERT SLEEVE	
Length	30, 60 or 90 cm
Material	Anodized aluminum
TRANSPORT CASE	
Tensio 100 with 30 cm standpipe	B x H x T 46,5 x 11,5 x 38 cm
Tensio 100 with 60 cm standpipe	B x H x T 84,5 x 12 x 35 cm
Tensio 100 with 90 cm standpipe	B x H x T 117,5 x 12 x 26,5 cm