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Tensiometer set

14.04



Complete standard set with different types of high quality tensiometers, suitable for multiple measurements. With this set you can do measurements up to a depth of 3 feet (90 centimeter).

- Direct read out of plant water stress
- Set perfect for schools and horticulturalists
- Simple installation
- Exchangeable porous ceramic cups
- Simple purely physical operating principle

Description

This multi-functional Tensiometer set can be applied to execute different research with various types of tensiometers up to a depth of 3 feet (90 centimeter). Following are included:

- The Jet-fill tensiometer features the Jet Fill reservoir for push-button convenience and minimization of soil disturbance when servicing is required.
- The Quick draw tensiometer is designed for portable field use. It responds quickly and equilibrates rapidly with the tension in the soil, providing measurements within a few minutes. A proprietary Soil Coring Tool is included.

The measuring values are read form the manometer. Besides the different types of tensiometers in various length, the set also includes a service kit, a gouge auger with extension rod and cleaning spatula.

Applications

- Soil moisture sensing
- Soil water retention
- Irrigation management

- Soil physics

Set contains

- "Jet-fill" tensiometers (6 pieces) in lengths of 11.8, 23.6, & 35.4-inch (30, 60, & 90 centimeter). 2 pieces each
- "Quick Draw" tensiometer (1 piece)
- Service kit
- Spare ceramic tips (3 pieces)
- Spare tips for Quick Draw tensiometer (2 pieces)
- Installation gouge auger (extendable) with extension, handle & spanners
- Spatula

Specifications

Tensiometer set

Package size 46 x 12.6 x 9.4 inch | 117 x 32 x 24 centimeter

Weight 17.64 lb | 8 kilograms

Quick draw tensiometer

14.04.05



The quick draw tensiometer from Royal Eijkelpamp is a small tensiometer that can easily be moved and, using the auger for pre-drilling, placed into the soil.

- Easiest installation with included gouge
- Measuring period of only a few minutes
- Super low dead volume cares for most rapid stabilization
- Suction can be preset in 15 cBar steps to further reduce stabilisation time

Description

The small diameter, the super porous ceramic cup and the possibility of pre-setting the tension, allows for a measuring period of only a few minutes.

After each measurement the tensiometer can be stored in a carrier cylinder in which it is kept humid allowing immediate use in case of a next measurement.

Applications

- Irrigation research
- Soil moisture measurements

Specifications

Quick draw tensiometer	
Maximum measuring depth	1 or 1.5 feet 30 or 45 centimeter
Measuring accuracy	± 2.5 hPa
Measuring range	0 - 850 hPa
Porous material (cups)	Ceramic
Reading accuracy	2%
Registration type	Manual
Volume of material needed	0.39 inch 10 milliliter

Watermark soil moisture measuring system

14.27.01



The Royal Eijkelkamp Watermark soil moisture measuring system is used to read out soil moisture sensors that measure moisture tension in the soil. With this soil moisture measuring system, more accurate measurements are possible due to the more consistent distribution of the pores.

- Low-cost measuring instrument
- Results directly expressed as soil suction
- Range allows measuring trees and dry crops
- Also good for irrigation advice
- No field maintenance of probes

Description

The measuring principle is similar to that of the gypsum block system. The special sensors however do not dissolve in the soil and have a more consistent distribution of pores so that more accurate measurements are possible.

The soil moisture sensors, which have a measuring range of 0-200 kPa (0 - 200 cbar), can be used individually or in combination with a PVC tube (in various lengths) for measuring the moisture tension. The condition for reliable measurements is the optimal contact between sensor and soil. Using the special auger, the holes are pre-drilled so that the soil moisture sensors can be placed at various depths. The sensors are buried permanently and have an average life of 3-5 years.

By using a soil temperature meter, the temperature measured can be set in the soil moisture meter allowing for temperature correction. The electrical resistance is converted by the soil moisture meter into moisture tension in kPa. The soil moisture sensors can be used as a replacement for tensiometers in most agricultural and landscape irrigation environments. If a series of soil moisture measurements is required, the soil moisture sensors can be connected easily to a datalogger.

Applications

- Irrigation research
- Soil moisture measurements

Specifications

Watermark soil moisture measuring system	
Maximum measuring depth	> 100 centimetre
Measuring accuracy	± 5%
Measuring range	0 - 2000 hPa
Reading accuracy	0.5%
Registration type	Logging
Volume of material needed	30 milliliter
Sieve apertures	0.063, 0.090, 0.125, 0.180, 0.250, 0.355, 0.500, 0.710, 1.00, 2.00, 4.00, 8.00 mm
Height	1.96 inch 50 mm

Watermark soil moisture sensor - 22.4mm

14.27.05



The inexpensive and easy to install Watermark soil moisture sensor is a granular matrix soil moisture sensor to measure soil moisture tension between soil particles. This is relevant for plant growth and soil stability.

- Proven stable calibration
- Range of measurement from 0 to 239 cb (kPa)
- Fully solid-state
- Not affected by freezing temperatures
- Internally compensated for commonly found salinity levels
- Compatible with AC or DC reading devices

Description

Watermark sensors can be used as an economical and maintenance-free replacement for tensiometers in most agricultural and landscape irrigation environments. These sensors will not dissolve in the soil, are insensitive to salt and frost resistant.

They monitor the current situation in the soil. An alternating current is applied to a sensor that is sensitive to soil moisture tension. Due to the consistent pore distribution of each sensor, a reasonably accurate measurements will be gained, with a measuring range of 0 - 199 kPa (0 - 199 cbar).

The soil temperature measured can be set in the [soil moisture meter \(14.27.01\)](#) allowing for temperature correction. The electrical resistance is converted by the soil moisture meter into moisture tension in kPa.

Applications

- Irrigation research
- Soil moisture measurements
- Leak Detection
- Agronomy Research
- Environmental Monitoring
- Water Table Monitoring

Specifications

Watermark soil moisture sensor - 22.4mm

Watermark soil moisture sensor - 22.4mm

Measuring range	0-200 kPa (= 0-200 cbar)
Length sensor	3.4 inch 88 millimeter
Diameter Ø	0.8 inch 22.4 millimeter
Cable length	9.8 feet 3 meter

Watermark soil moisture sensor - With pvc tube

14.27.0



Watermark sensors can be used as an economical and maintenance-free replacement for tensiometers in most agricultural and landscape irrigation environments. These sensors will not dissolve in the soil, are insensitive to salt, and frost resistant.

- Easy to install
- Proven stable calibration
- Fully solid-state
- Not affected by freezing temperatures
- Internally compensated for commonly found salinity levels
- Compatible with AC or DC reading devices

Description

The inexpensive and easy to install Watermark soil moisture sensor with pvc tube is a granular matrix soil moisture sensor, measure soil moisture tension between soil particles. This is relevant to plant growth and soil stability. Thanks to the pvc tube, it is easier to insert the sensor deeper into the ground.

The sensor monitors the current situation in the soil. An alternating current is applied to a sensor that is sensitive to soil moisture tension. Due to the consistent pore distribution of each sensor, a reasonably accurate measurements will be gained, with a measuring range of 0 - 199 kPa (0 - 199 cbar).

The soil temperature measured can be set in the [soil moisture meter \(14.27.01\)](#) allowing for temperature correction. The electrical resistance is converted by the soil moisture meter into moisture tension in kPa.

Available variations:

- **14.27.07** with pvc tube, length 2.5 ft (75 cm). Cable length 9.8 ft (3 m).
- **14.27.09** with pvc tube, length 3.9 ft (120 cm). Cable length 9.8 ft (3 m).

Applications

- Irrigation research
- Soil moisture measurements
- Leak Detection
- Agronomy Research
- Environmental Monitoring
- Water Table Monitoring

Specifications

Watermark soil moisture sensor - With pvc tube	
Measuring range	0-200 kPa (= 0-200 cbar)
Length sensor	3.4 inch 88 millimeter
Diameter Ø	0.8 inch 22.4 millimeter
Cable length	9.9 feet 3 meter

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