



Dial Tensiometer SKT 690

The Dial Tensiometer is a low cost version of Skye's successful field tensiometer range. Tensiometers measure the water availability to plant roots, and so can be used in irrigation scheduling and crop management.

Tensiometers are designed to be permanently installed in the growing medium, which they equilibrate with and measure the 'soil suction'. Plant roots need to exert a suction to remove water from the soil, it is this suction which is measured by the tensiometers.

The tensiometer itself consists of a shaft of clear acrylic plastic (length variable depending on depth of measurement required), with a porous ceramic bulb at the lower end.

The top is sealed with a rubber stopper, and fitted with a dial pressure gauge.

This shaft is totally filled with water before installation into the growing medium to be measured. The water is able to flow in or out of the tensiometer via the ceramic bulb, as the suction inside the instrument equilibrates with the soil suction. The suction (or negative pressure) is shown directly on the gauge dial fitted into the top.

A series of tensiometers throughout the crop can give an accurate representation of crop water requirements and also produce a soil moisture map.



Low cost and simple to use

Robust construction for a long life

Suitable for soil, peat and other mediums

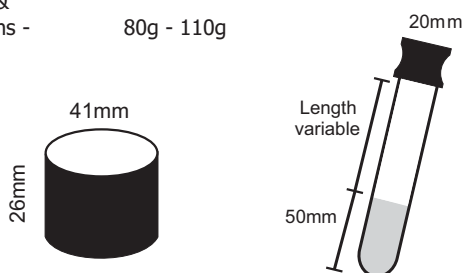
No correction factors for different soils or mediums

Direct readout without the need for an electronic meter

Traditional design tensiometer with dial gauge readout of soil suction

SKT 690 SPECIFICATIONS

Operating Temperature	- 0 to +70 (precautions required for operation in below zero conditions)
Measuring Range	- 0 - 850hPa
Registration Type	- Manual
Water Capacity	- Dependent on Tensiometer length
Shaft Construction	- Porous ceramic bulb. Clear acrylic shaft lengths 20cm to 100cm. Rubber septum stopper.
Dial Construction	- Brass mechanism. Plastic Housing.
Weights & dimensions	- 80g - 110g



ORDERING INFORMATION

Sensor

- SKTD 690/20 - 20cm Tensiometer with Dial Gauge
- SKTD 690/30 - 30cm Tensiometer with Dial Gauge
- SKTD 690/40 - 40cm Tensiometer with Dial Gauge
- SKTD 690/50 - 50cm Tensiometer with Dial Gauge
- SKTD 690/60 - 60cm Tensiometer with Dial Gauge
- SKTD 690/70 - 70cm Tensiometer with Dial Gauge
- SKTD 690/80 - 80cm Tensiometer with Dial Gauge
- SKTD 690/90 - 90cm Tensiometer with Dial Gauge
- SKTD 690/100 - 100cm Tensiometer with Dial Gauge

Other Tensiometers Available

- SKT 600 - Electronic Tensiometer
- SKTM 650 - Mini Tensiometer
- SKT 690 - Septum Tensiometer