## Soil Moisture Sensors and Testers



## **Understanding Soil Moisture Tension**

Soil moisture tension is the measurement of how strongly water is held in the soil. Water is held in the soil by capillary forces as well as the attraction of the water molecule to itself and to electrically charged clay particles. Soil moisture tension is measured in units of pressure (centibars or kilopascals). The tension at which irrigation is recommended depends on the soil and crop, but typically falls somewhere between 30 and 50 centibars\*.

\* 1 centibar = 1 kPa



## Watermark Soil Moisture Sensor

- Works with FieldScout Soil Sensor Reader (Item 6466)
- · Reads moisture tension from 0 (saturated) to 200 (dry) centibars
- Includes a 5 ft (1.5 m) extendable cable

Item 6450	Watermark Sensor	\$39.00
Item 6450FSADP	Γ Watermark Adapter for Soil Sensor Reader	\$36.00
Watermark Sens	ors for WatchDog Weather Stations	
Item 6450WD	Watermark Sensor for WatchDog Stations with 11 ft (3.3 m) cable	\$69.00
Item 6450WD20	Watermark Sensor for WatchDog Stations with 25 ft (7.6 m) cable	\$77.00
Item 6450AH	Watermark Adapter Adapter required to connect WatchDogs to exisiting Watermark Sensors	\$43.00



- Scheduling irrigation based on how hard plant roots are working to draw water from the soil
- · "R" models (shown) are for general use with field or tree crops
- "LT" models (see www.specmeters.com) are for coarse soils or greenhouse media
- Can be connected to WatchDog Data Loggers and Stations with Pressure Transducer (Item 3669)
- · Pressure gauge has a quarter inch pipe thread
- Service kit required

Item 6419	6 in (15 cm) Depth	\$77.00
Item 6420	12 in (30 cm) Depth	\$80.00
Item 6421	18 in (45 cm) Depth	\$83.00
Item 6422	24 in (60 cm) Depth	\$87.00
Item 6423	36 in (90 cm) Depth	\$92.00
Item 6425	Service Kit - Required	\$58.00

 Connect your "R" model tensiometer to your weather station. The Pressure Transducer adapts to the Irrometer tensiometers and allows use of the dial gauge for in-field measurements

Item 3669 Pressure Transducer \$249.00



- · Analog soil moisture meter measures any type of soil with just one calibration
- · Resistance-type sensor located at the tip of the shaft
- Provides instant results ranging from 0 (dry) to 10 (saturated)
- · 3-month warranty

Item 6400	9 in (22 cm) Soil Moisture Tester	\$94.00
Item 6405	24 in (60 cm) Soil Moisture Tester	\$99.00

