### Portable Soil Texture Determination Systems

Soil texture is a basic physical property that determines several hydraulic SimplyData Digital Scale and software. This eliminates the need for performing calculations and provides the final results when the readings are finished.

# Soilmoisture Ceramics



#### Soil Moisture Retention Characteristics

Complete Laboratory Setups for Determining Soil Moisture Release Curves

Soil moisture retention characteristics (soil moisture release curve) describe available water under different levels of moisture content. It is a key parameter for irrigation purposes as well as construction projects, mining, oil industry and more. Soilmoisture offers a complete range of laboratory setups for your specific application. The system consists of precision pressure regulating systems (-1 to +15 bar available), pressure extractors, pressure plates or membranes, pressure pumps and other items for collecting, preparing and measuring samples.



LAB0123 (0 to 15 bar) Extractor Systems



801 S. Kellogg Ave. Goleta, CA 93117 Phone: 805.964.3525 • Fax: 805.683.2189

www.soilmoisture.com



# Soil Permeability Measurement Systems

Soilmoisture Equipment Corp. carries a suite of permeameters and infiltrometers to measure hydraulic conductivity (and other related parameters) in soil and other similar materials. Soil permeability characteristics have several applications: Irrigation projects, tile and drainage systems, sewer system design, construction projects, dumping sites and landfill facilities, mining and oil industries. Our Guelph Permeameter has been the most popular permeameter in the soil sciences and we have recently introduced the first automated and most accurate borehole permeameter, the Aardvark Permeameter.





# Soil-Water Potential Measurement Systems

Several Types of Tensiometers for any Type of Application

Soilmoisture Equipment was the first company to commercialize tensiometers as the direct and most reliable method to measure soil-water potential. Soil-water potential (also known as matric potential) represents soil wetness status (and thus a plant's stress level). It is one of the most useful parameters for irrigation scheduling systems. Tensiometer readings are not sensitive to soil type or texture. Therefore readings do not need to be corrected for soil type. This is a huge advantage when compared to other methods.







6050X3K5B MiniTrase

**Standard** Waveguide



2840KIPCT **Aardvark** Permeamete shown

# **Instant Soil Moisture** Measurement Systems MiniTrase - the Most Accurate

**Technology Available in the Market** 

Soil moisture is one of the most important parameters in almost all types of soil-related activities: from irrigation applications to onstruction projects to environmental monitoring systems he MiniTrase uses TDR technology to instantly and accurately determine soil-moisture content. When used ith the Slammer (not shown), our most rugged probe, ou can take measurements in the most hostile conditions and environments. Soilmoisture's TDR probes are not sensitive to salinity or temperature.





as irrigation projects and drought management practices.
Soilmoisture provides several types of SAPS units for almost any type and size of leaves and also laboratory and field applications.
When using a SAPS unit, growers can accurately measure the amount of water stress applied to crops and fine tune their irrigation practices. Vineyard managers, nut tree and other types of growers use the SAPS daily. The accurate results enable them to stress their plants just enough to enhance quality and flavor without compromising production.



### Soil-Water Samplers

With more than half a century of history in industry and research, Soilmoisture's Soil Water Samplers are highly regarded for their exceptional performance and reliability. Our unique ceramic formula makes our samplers inert to most types of chemicals. Different levels of bubble point (0.5, 1 and 2 bar) make our samplers flexible enough to fit any type of application. Soilmoisture offers soil-water samplers in almost any practical size; from very small suction cups to use in pots or soil columns up to super-sized all ceramic samplers.

#### 1900 Lysimeters

The 1900 is a single port, soil water sampler and it is designed for surface installation (6 inches to 6 feet).

#### 1920 Lysimeters

The 1920F1 is a vacuum/pressure sampler developed as a "remote access" instrument. It can be installed 50 feet deep with 100 feet lateral displacement.

#### 1940 Lysimeters

The 1940 is used for deep installation (down to 300 feet) or where long lateral runs required. High levels of air pressure can be safely applied to 1940 to elevate sampled water up to the soil surface.

