Soilmoisture Equipment has been perfecting the manufacture of high-quality ceramics for more than 55 years. Soilmoisture ceramics (Aluminum Oxide) are inert to several chemicals. They are available with several different bubble points and flow rates. The hydrophilic ceramic is impervious to air when wet while allowing water to pass through. This extraordinary feature makes Soilmoisture ceramics the perfect choice for our soil water samplers and tensiometers. If you need a custom ceramic, our knowledgeable and skilled technicians can create ceramic parts in almost any shape and size imaginable.

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, all 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.

Perform Soil Particle Analysis in the Field

Soil texture is a basic physical property that determines several hydraulic characteristics including permeability, evaporation rate, runoff and other related features. Our San Andreas Soil Particle Analysis Kit is a portable and durable soil analysis system that consists of two carrying cases: one for sand analysis and the other for hydrometer testing (also known as the Stokes’ method). The San Andreas system comes with a SimplyData Digital Scale and software. This eliminates the need for calculations and provides the final results when the readings are finished.

Portable Soil Texture Determination Systems

Soilmoisture Equipment offers the San Andreas Soil Particle Analysis System. Portable and durable, the system is perfect for use in remote areas and underdeveloped regions, where there is limited or no access to a soils lab. The system is based on ASTM Standard D422 and consists of two carrying cases: one for sand analysis and the other for hydrometer testing (also known as the Stokes’ method). The San Andreas system comes with a SimplyData Digital Scale and software. This eliminates the need for performing calculations and provides the final results when the readings are finished.

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Several Types of Tensiometers for any Type of Application

MiniTrase - the Most Accurate Technology Available in the Market

SAPS (System Analysis for Plant Stress) Is the Direct Method for Measuring Plant Water Potential

Soil moisture is one of the most important parameters in almost all types of soil-related activities: from irrigation applications to construction projects to environmental monitoring systems. Soilmoisture Equipment has been the first company to commercialize tensiometers as the direct and most reliable method to measure soil-water potential. Soilwater potential (also known as matric potential, or capillary water potential) and soil moisture content are two closely related parameters that need to be corrected for soil type. This is a huge advantage when compared to other methods.

SAPS has several applications in plant physiology studies as well 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. This enables them to stress their plants just enough to enhance quality and flavor without compromising productivity.

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

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

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.

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, lea and drainage systems, sewer system design, construction projects, and more. Soilmoisture Equipment has been the most popular permeameter on the market and recently introduced the first automated and most accurate borehole permeameter, the Aardvark Permeameter.

Double Ring Infiltrometers, Borehole Permeameters, Pressure and Tension Infiltrometers

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Instant Soil Moisture Measurement Systems

Soilmoisture Equipment is one of the most important parameters. In almost all types of soil-related activities, from irrigation applications to construction projects to environmental monitoring systems. Time Domain Reflectometry (TDR) technology is used to accurately determine soil moisture content. System Analysis for Plant Stress (SAPS) technology is the direct and most reliable method to measure soil-water potential. Soil-water potential (also known as matric potential, or capillary water potential) and soil moisture content are two closely related parameters that need to be corrected for soil type. This is a huge advantage when compared to other methods.

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