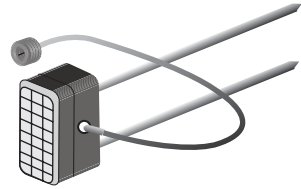


Probe Types

- Selection of two-rod (single diode) probes, 6" to 36" (15cm to 90cm) in length



- Profiling Probes



Type	# Segments	Segment Lengths in centimeters
PRB-Q	7	15, 15, 15, 15, 15, 15, 15
PRB-A	5	15, 15, 30, 30, 30
PRB-F	5	15, 15, 15, 15, 30
PRB-H	5	15, 15, 15, 15, 15
PRB-M	4	30, 30, 30, 30
PRB-K	4	15, 15, 15, 15
PRB-D	2	15, 15
PRB-C	1	30

Flexible Options

Stand-Alone Manual Mode

Multiplexing Systems

- Configuration of up to 31 profiling probes of mixed types
- Remote operation (AC or solar panels)
- Remote data logging
- Remote data access via wireless telemetry
- Integrated meteorological data
- Turnkey systems delivered in weatherproof environmental enclosures

Additional Tools & Services

- Probe insertions and extraction tool kits
- View • Point diagnostic and display software
- Consulting
- Installation, commissioning and training
- Post-installation service, data interpretation and analysis

Technical Specifications

Data Output

- Four digit, liquid crystal display on front panel with operator-selectable readout in % moisture or time delay
- Communication with personal computer via RS-232 serial interface

Power Requirements

- Internal battery operation for field use
- 120 VAC to 12 VDC battery charger supplied with instrument
- Input for external battery pack, solar panel or auxiliary power supply

Temperature Range

Operating: 32°F to 122°F (0°C to 50°C)
Storage: 5°F to 158°F (-15°C to 70°C) with battery removed, 32°F to 122°F (0°C to 50°C) with battery installed

Mechanical

- Instrument Dimensions: 10.8" x 9.8" x 6.8" (274 x 248 x 173mm) 12lbs (5kg)
- Probe Dimensions: 1/2" x 3/4" up to 83" long (1.3 x 1.9 up to 210cm)

Moisture•Point™

High resolution moisture profiling



E.S.I. Environmental Sensors Inc.

Toll Free (in North America): 1.800.799.6324
Email: sales@esica.com · www.esica.com



Technology for the Environment

Moisture•Point tells the whole story

An Essential Tool for Science & Industry

Soil Science & Water Movement Research

- Study water circulation and evaporation processes in soils.
- Detect changes in water flow and water transport in contaminated or irradiated soil.
- Monitor the effects of circulating water on plant life.

Landfill Monitoring

- Track moisture movement within landfill covers.
- Evaluate and analyze moisture in modern landfills.

Agriculture

- Irrigation scheduling based on topographical and climate changes.

Silviculture & Viticulture

- Evaluate and control available moisture for optimum growth.

Civil & Municipal Engineering

- Soil stability monitoring.
- Landscape architecture.

Scientific Research

- Precise moisture measurement data to within 1% accuracy.
- Satisfies a wide range of research uses.

An Award Winning Product

Moisture•Point is a winner of the Prestigious AE 50 Award for Outstanding Innovation, conferred by The American Society of Agricultural Engineers (ASAE).



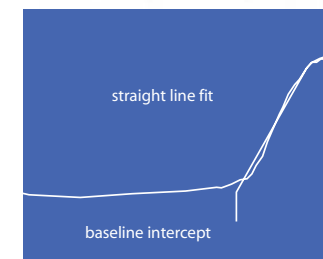
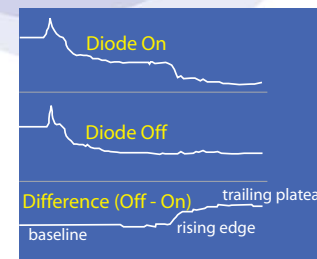
Moisture•Point internally analyzes accurate, complete data to give a simple, precise moisture content readout.

Moisture•Point's shorting diodes Time Domain Reflectometry (TDR) technology allows superior signal differentiation and processing that results in vastly increased signal-to-noise ratio for higher performance in clay/conductive soils.

Moisture•Point technology provides multiple sensing segments in a single profiling probe. Each segment is an individual moisture sensor, and it can accept a specific soil calibration in layered soils. Readings reflect the contiguous moisture profile with up to seven readings from a single probe. The small cross-section of the probe allows for easy installation from the surface with minimal impact on the surrounding environment.

View•Point is a user-friendly DOS utility program for IBM-PC compatibles designed by ESI to control and monitor the operation of the MP-917 instrument. Communication between the MP-917 and View•Point is via RS-232 serial communications to a PC.

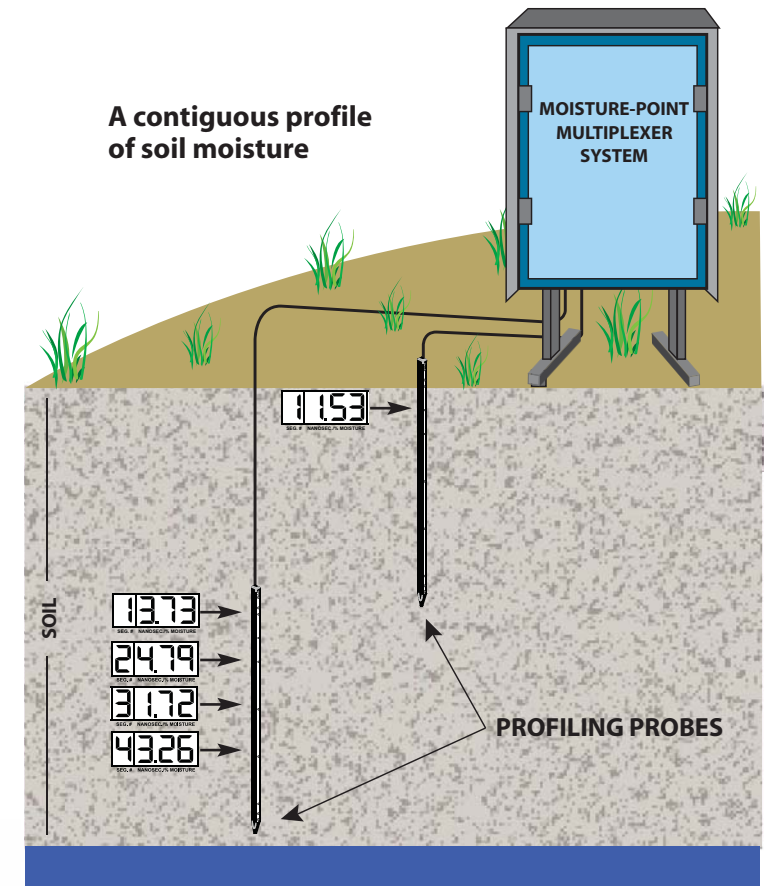
With View•Point, the MP-917's operating parameters can be viewed and modified, individual steps of the instrument operation can be observed, and measurements which are normally made automatically can be performed manually. Consequently, View•Point can assist in verifying the correct operation of the MP-917, troubleshooting various fault conditions, and performing calibrations of many aspects of the Moisture•Point soil moisture monitoring system.



Actual print-out from View•Point software, indicating the difference functions

The MP-917 uses special sampling circuitry to measure and acquire diode difference functions (as well as raw TDR waveforms). Difference functions are used to pinpoint the position of a diode. During probe scans, examining the rising edge of the difference function allows the MP-917 to accurately determine the position of a diode in the time domain. The instrument will optimize the quality of the rising edge before displaying a reading.

A contiguous profile of soil moisture



Moisture•Point internally analyzes accurate, complete data to give a simple, precise moisture content readout



There's a lot happening below the surface...