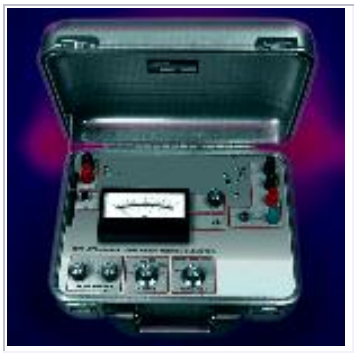
SOLS MESURES
INSTRUMENTS, SYSTEMES ET SERVICES POUR LA GEOTECHNIQUE ET L'AGRONOMIE

MESURE DE POTENTIEL
METHODE PSYCHROMETRIQUE
Par WESCOR.

PCT-55/PST-55

Wescor's *in situ* soil psychrometers, model PST-55 are buried within the bulk soil to determine the soil water potential. The PST-55 has a stainless steel screen to allow only the water vapor to enter the sensor. A ceramic screen is also available as model PCT-55.



HR-33T

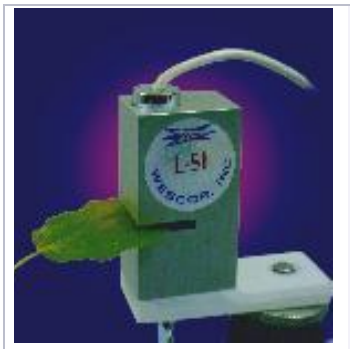
The standard in water potential measurement, Wescor's Dew Point Microvoltmeter, model HR-33T, can determine water potential using both dew point and wet bulb methods. Its manual operation makes it ideal for teaching students about water potential determination using psychrometric principles.

C-52 & C-30

Wescor's sample chamber, model C-52, can measure the water potential of solutions, small soil or leaf samples, and leaf discs. The C-52 must be connected to a Wescor water potential instrument such as the PSYPRO, HR-33T, or CR7 for operation.

PS-10

Wescor's psychrometer switchbox, model PS-10 allows up to 10 psychrometers/hygrometers to be connected to the HR-33T at one time. Selecting each psychrometer is accomplished by switching the PS-10 to each channel. Sensors must have the SF connector to be able to connect to the PS-10



L-51 and L-51A

Wescor's *in situ* leaf psychrometers, model L-51 and L-51A attach directly to a leaf to determine the leaf water potential. The L-51A has a smaller vapor chamber than the L-51 that was designed for use with grasses.
Both leaf psychrometers must be connected to a Wescor water potential instrument such as the PSYPRO, HR-33T, or CR7 for operation.

PSYPRO

The PSYPRO is a low-cost automated eight-channel water potential datalogger. It is designed for both laboratory and field water potential measurements using Wescor's sample chambers, soil psychrometer sensors, leaf psychrometer sensors. Outputs data in common MPa units.

LP-27

Wescor's Markhart Leaf Press, model LP-27, is used to extract leaf sap from leaves and then collects the sample directly to a filter paper disc. The disc can then be inserted into a VAPRO or C-52 sample chamber for determination of osmotic potential. The LP-27 reduces errors induced by evaporation of the sample during collection

WESCOR/CAMPBELL

The CR7 is an automated multi-channel water potential datalogger. It is best suited when more than 16 water potential sensors will need to be scanned at regular intervals in the field or laboratory. Wescor soil and leaf psychrometers are mainly used with the CR7.

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