



## HYPROP 2: SOIL MOISTURE RELEASE CURVES

### DESCRIPTION

The HYPROP 2 takes only days vs. months to generate a soil water characteristic curve in the wet range, and it does this automatically.

Use the HYPROP 2 together with the WP4C (which measures the dry range), and you can create full, high-resolution moisture release curves across the entire range of soil moisture. Nothing else is capable of doing that—not at this level of detail.

On top of all that, we designed the HYPROP 2 to automatically determine unsaturated hydraulic conductivity on undisturbed soil samples placed inside a standard 250 mL sampling ring. Used in tandem with the KSAT, it can a generate a hydraulic conductivity curve for any soil type. The resulting instrument winds up saving you time, hassle and worry.



### HYPROP 2

#### FEATURES

- More precise and robust
- Low time, cost, and effort
- Easy to handle and flexible
- Simultaneous measurement of water retention function and hydraulic conductivity
- High validity of the water retention function, especially in the area close to saturation
- The hydraulic functions are consistently verified by a large number of measuring values
- Reliable determination of unsaturated conductivity in the medium water potential range— independent of model assumptions
- Tensiometers measure beyond typical cavitation point down to -240 kPa
- Tensiometers are positioned upside down in the soil sample (undisturbed evaporation and no impact on the tensiometer shafts)
- Reduced tensiometer water loss after reaching the cavitation phaseAvoidance of manual calculation errors.

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The HYPROP 2 uses two precision mini-tensiometers to measure water potential at different levels within a saturated soil sample while the sample rests on a laboratory balance. Over time, the sample dries, and the instrument measures the changing water potential and the changing sample weight simultaneously. It calculates the moisture content from the weight measurements and plots changes in water potential correlated to changes in moisture content.

SPECIFICATIONS	
<b>Accuracy</b>	1.5 hPa (0 hPa to 820 hPa)
<b>Resolution</b>	0.01 hPa
<b>Measurement range for tensiometers</b>	+20 hPa to -1200 hPa / -2400 hPa
<b>Material/Dimensions without sample ring</b>	POM, h = 63 mm, Ø = 80 mm
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### ACCESSORIES:

- Transport Box for HYPROP/KSAT Samples
- Soil Coring Device With Stopper
- Sample Ring Insertion Tool
- Adapter Set
- HYPROP Vacuum Pump
- HYPROP Beaker Mount
- HYPROP Balance
- Extra HYPROP/KSAT Sample Rings

### Contact info



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The improved version of the evaporation method in the lab to determine the pF curve and the unsaturated conductivity of soils sets a new benchmark. HYPROP makes highly precise, simultaneous measurements of hydraulic characteristics during the natural desiccation of the soil. Thus, HYPROP delivers data with high resolution in a minimal period of time under natural conditions.

This Instrument is manufactured by our principle company

**METER Environment - USA**