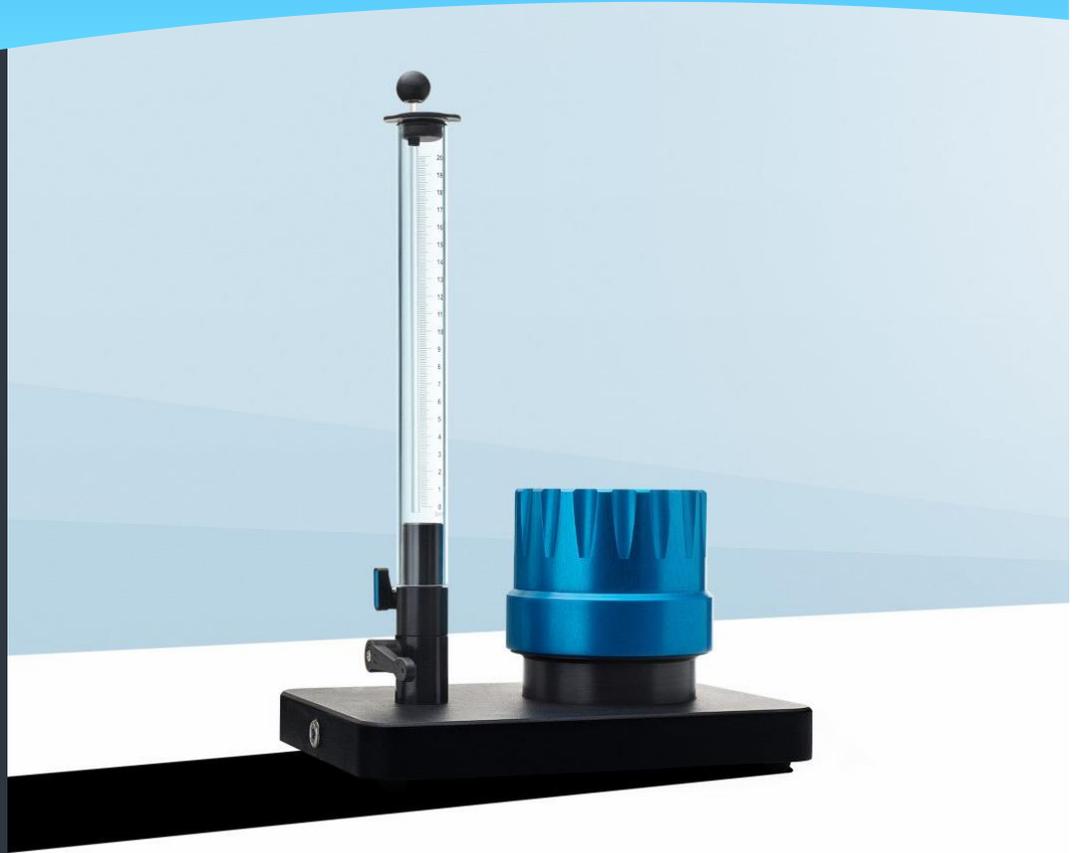




KSAT: SATURATED HYDRAULIC CONDUCTIVITY

DESCRIPTION

KSAT comes with everything you need to make a measurement, meaning you can set it up right out of the box. This type of integration also allows the KSAT to take up minimal bench space. But perhaps its biggest benefit is how, as part of the LABROS system, it complements the HYPROP. Both the HYPROP and the KSAT can use the same soil core because they share compatible sampling rings. This enables you to take saturated and unsaturated hydraulic conductivity measurements and generate a soil moisture characteristic curve to get a complete picture of a sample's properties, simplifying both processes. As the only simplified automated instrument on the market, the KSAT makes measurements a lot more convenient. The easy-to-use software performs all calculations, including temperature corrections based on the viscosity of water.



KSAT

FEATURES

- Accurate
- Removes human error
- Directly calculates Ksat
- Temperature corrections
- Completely integrated package
- Small footprint
- Automated
- Uses both constant and falling head methods
- Easy-to-use software
- Compatible with HYPROP
- Wide range of conductivities
- Complies with DIN 19683-9 and DIN 18130-1.

KSAT: SATURATED HYDRAULIC CONDUCTIVITY

The KSAT boasts a wide range of measurement conductivities from 5,000 to 0.01 cm/d. Plus it reads and stores data automatically on your computer via USB, so human error is reduced. And because the data is temperature-corrected, data quality is also dramatically improved for results you can truly rely on.

Full integration. Simple automation. Improved accuracy. The KSAT finally checks off all the boxes you care about when it comes to measuring saturated hydraulic conductivity in a compact instrument that saves you time, hassle, and worry.

SPECIFICATIONS

Measurable K_{sat} values (min.)	0.01 cm/d (0.004 in/d)
Measurable K_{sat} values (max.)	5000 cm/d (196 in/d)
Hydraulic conductivity (K_s) of the porous plate	$K_s = 14000$ cm/d (5512 in/d)
Typical statistical inaccuracy at constant environmental parameter and constant flow resistance of the soils	approx. 2% (in practice 10%)
Pressure sensor accuracy	1 Pa (0.01 cm WC or 0.0001 psi)
Temperature sensor accuracy	0.2 °C C (0.4 °F)
Sampling ring (also fits with HYPROP)	Volume: 250 ml (0.066 gal) Height: 50 mm (2 in) Inside diameter: 80 mm (3.15 in) With separate adapter: 100 ml sampling rings possible

ACCESSORIES:

- Transport Box for HYPROP/KSAT Samples
- Sample Ring Insertion Tool
- Adapter Set
- Extra HYPROP/KSAT Sample Rings

Contact info



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