

KSAT

UMS GmbH

For determination of saturated hydraulic conductivity on 250 cm³ soil samples by constant-head and falling-head experiments

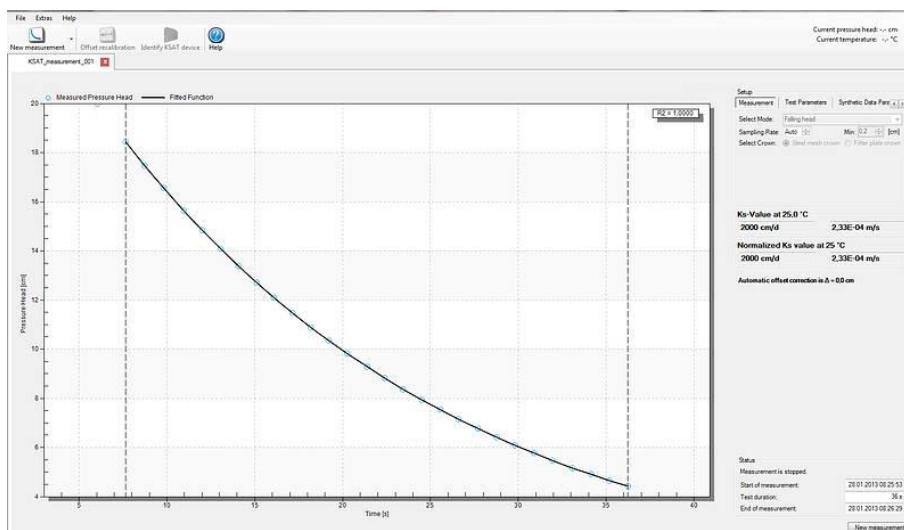
- Measuring the saturated conductivity, K_s , according to DIN ISO 19683-9 and DIN ISO 18130-1 (constant-head mode and falling-head mode)
- Highly precise system, usable for conductivities from 10000 cm/d (takes seconds) down to 0.1 cm/d (takes a day)
- Fully automated measurement
- Real-time visualization, evaluation and storage of the data
- Convenient and robust software KSAT VIEW1.0© with GUI for data visualization and immediate calculation of saturated conductivity
- Integrated recalculation of K_s to desired reference temperature according to the temperature-dependence of the viscosity of water
- Repeated measurements for the same soil sample for long-time monitoring studies are easily done
- No evaporation losses, even with long-time measurements

The UMS Ksat System is designed for determination of saturated hydraulic conductivity on 250 cm³ soil samples by constant-head and falling-head experiments. The methodology follows the standards DIN 19683-9 and DIN 18130-1 and is based on the inversion of the Darcy law. The proportionality factor of the amount of water flow through a defined area and the hydraulic gradient is stated as saturated hydraulic conductivity (K_s). This gives our new product the name Ksat.



TECHNICAL INFORMATION

Measuring range	10000 ... 0.1 cm/d
Interface	USB
Dimensions	27 x 20 x 40 cm



« UMS » est une exclusivité de Sols Mesures