



METER
ENVIRONMENT



SATURO

GET MORE OUT OF EVERY FIELD VISIT

Saturated hydraulic conductivity is a pain to measure in the field. And the infiltrometer field measurement is only the beginning. When you get back to the office, you need to convert the raw data into hydraulic conductivity and infiltration rates.

We think you should spend less time on complex measurement processes and more time being productive. That's why we automated almost everything in the new SATURO.

FEATURES

- Fully automated infiltrometer
- Capable of unattended measurement
- K_{fs} values calculated and graphed in real time, no data post-processing is necessary
- Portable
- Includes self-contained water reservoir

SPECIFICATIONS

INFILTRATION RATE Range: 0.0038 cm/hr to 115 cm/hr
Resolution: 0.0038 cm/hr
Accuracy: $\pm 5\%$ of reading

WATER LEVEL Maintained at 5cm

PRESSURE HEAD RANGE 0 to 40 cm

OPERATING TEMP 0 to 50 °C

CHARGING ADAPTER 18 V 2.2 Amps; Range 18 to 24 V DC
Output: USB

K_{fs}

The range of K_{fs} values that can be effectively measured by the SATURO infiltrometer are limited by the minimum and maximum infiltration rates listed above. These depend on the pressure heads applied to the water during infiltration and to the three-dimensional flow characteristics of the soil, so the measurement range of K_{fs} cannot be specified explicitly. SATURO will generally be able to make measurements on poorly to moderately structured soils as coarse as medium sand, but the maximum infiltration rate can be exceeded by soils with excessive structure and especially by soils with significant macropores.



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