



METER



SATURO

Field Saturated Hydraulic Conductivity

SET IT UP, AND LEAVE

The SATURO dual-head infiltrrometer does almost everything for you. It's fully automated and doesn't require post-processing of data. Install the ring, connect the hoses, and push start. It's that simple.

The infiltrrometer automatically measures infiltration rates, and the control unit calculates field saturated hydraulic conductivity (K_{fs}) on the fly. That means if you need a value right away, it's there. If you want to dig deeper, you can always download the raw data.

ELIMINATE GUESSING

Single and double ring infiltrmeters require you to know—or guess—the “alpha factor” (soil macroscopic capillary length) to manually correct for three-dimensional flow. The SATURO infiltrrometer changes everything. It automates the well-established dual head method which measures infiltration at two different pressure heads to estimate sorptivity. This simplifies the three-dimensional flow analysis, allowing you to determine field saturated hydraulic conductivity without making any dubious assumptions. And the best part is—it does all the calculations for you, saving you hours of tedium.

FEATURES

- Fully automated infiltrrometer
- Capable of unattended measurement
- The Soil Health Institute recommends SATURO as a standard method for measuring K_{fs} : a Tier 1 soil health indicator
- Compliant with ASTM standard test method D8550-25
- K_{fs} values calculated and graphed in real time, no data post-processing is necessary
- Portable
- Includes self-contained water reservoir

SPECS

| | |
|-----------------------------|--|
| Pressure Head Ranges | 0 to 40 cm |
| Water Level | Maintained at 5 cm |
| 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. |
| Infiltration Rate | Range: 0.0038 cm/hr to 115 cm/hr Resolution: 0.0038 cm/hr Accuracy: ± 5 % of reading |
| Charging Adapter | 18 V 2.2 Amps; Range 18 to 24 V DC Output: USB |
| Operating Temperature Range | 0 to 50 °C |
| GSA | View GSA details |
| Other Compatible Software | Download the measurement data stored in the SATURO to your Windows computer with the free downloader software linked below in the support section. |

USA
2365 NE Hopkins Court, Pullman WA 99163
T 509.332.5984 F 509.332.5158
E sales.environment@metergroup.com W metergroup.com

Europe
Mettlacher Straße 8, 81379 München
T +49 89 1266520
E info.europe@metergroup.com W metergroup.com