

SYSTEM SOLUTIONS:

Soil Hydrological Measuring Station

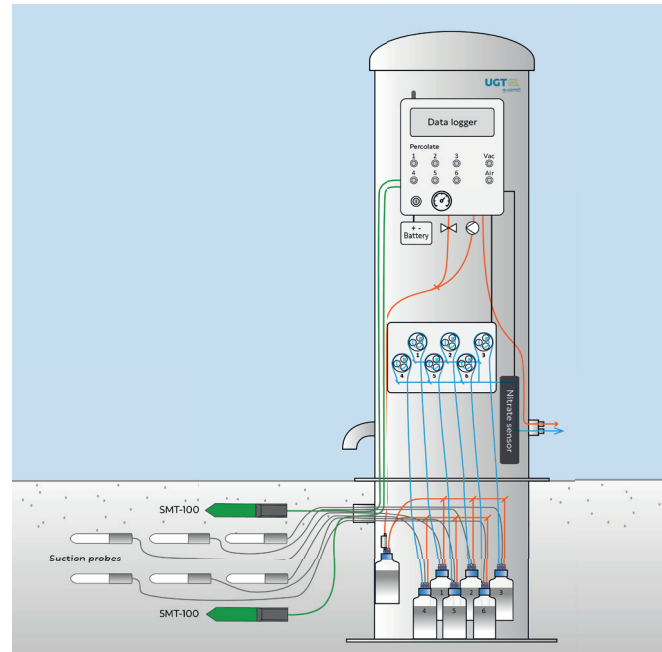
A soil hydrological station with our soil sensors provides valuable insights into the complex interaction between water and soil. Tension, Soil moisture, percolation, and optionally meteorological parameters are precisely recorded here - an essential foundation for environmental and climate protection, agriculture, and sustainable water management.



Soil Hydrological Measuring Station, project SuLaMo, Morocco

Suction Probe Systems

We also offer complete, customized suction probe systems. These provide targeted insights into soil water – right where plants root and absorb nutrients. By extracting soil solutions, nutrient levels, pollutant entries, and environmental changes can be directly and reliably analyzed.



Soil hydrological measuring station with integrated suction probe system

Everything from one source: Power supply & data management

We can equip all measuring stations with appropriate power supply solutions upon request. We also take care of data storage and transmission. Through our partner company SVADSS, we offer you a customized online data portal or an in-house database solution with Lysidata.

Just contact us if you have an idea, a research project, or a proposal. Together we will find the right solution for you!

We look forward to your call or email.

+49 33432 7559-0

info@ugt-online.de



Umwelt-Geräte-Technik GmbH
Eberswalder Str. 58 · D-15374 Müncheberg
P. +49 33432/7559-0 · info@ugt-online.de

Branch Munich
Lindberghstr. 7a · D-85399 Hallbergmoos
P. +49 811/124478-0 · info-sued@ugt-online.de

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The Solutionists

MORE THAN
STANDARD



SOIL SENSORS

Measure the soil
with us



Tensiometers

Suction Probes

Soil Moisture Sensors



Even more info at:
www.ugt-online.de

UGT SOIL SENSOR TECHNOLOGY

WANT TO STUDY SOIL WATER BALANCE IN YOUR PROJECT?

We offer the right solutions for you - customized to your needs: from tensiometers, soil moisture sensors, and suction probes to fully designed soil hydrological measuring stations or lab setups.

We are the specialist for soil measurement instruments - see for yourself!

Tensiometers

UGT's roots lie in tensiometer technology. With a wide range of models and flexible manufacturing, we offer tailored solutions. Unsure which tensiometer suits your application best? Contact us and we'll help you find the right one.



Tensio 100 - Field Tensiometer



Tensio 120 - Septum Tensiometer



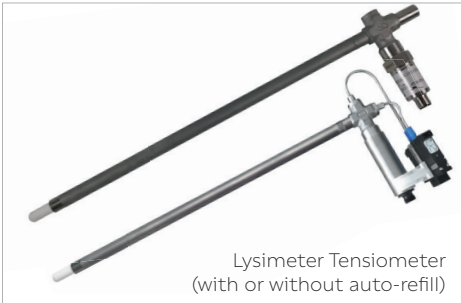
Tensio 140 - Laboratory Tensiometer



Tensio 152 - Pressure Transducer Tensiometer



Tensio 153e
- Externally Refillable
Pressure Transducer Tensiometer



Lysimeter Tensiometer
(with or without auto-refill)

Full Range Tensiometer FRT 15D-SM

The only all-in-one sensor currently on the market measuring:

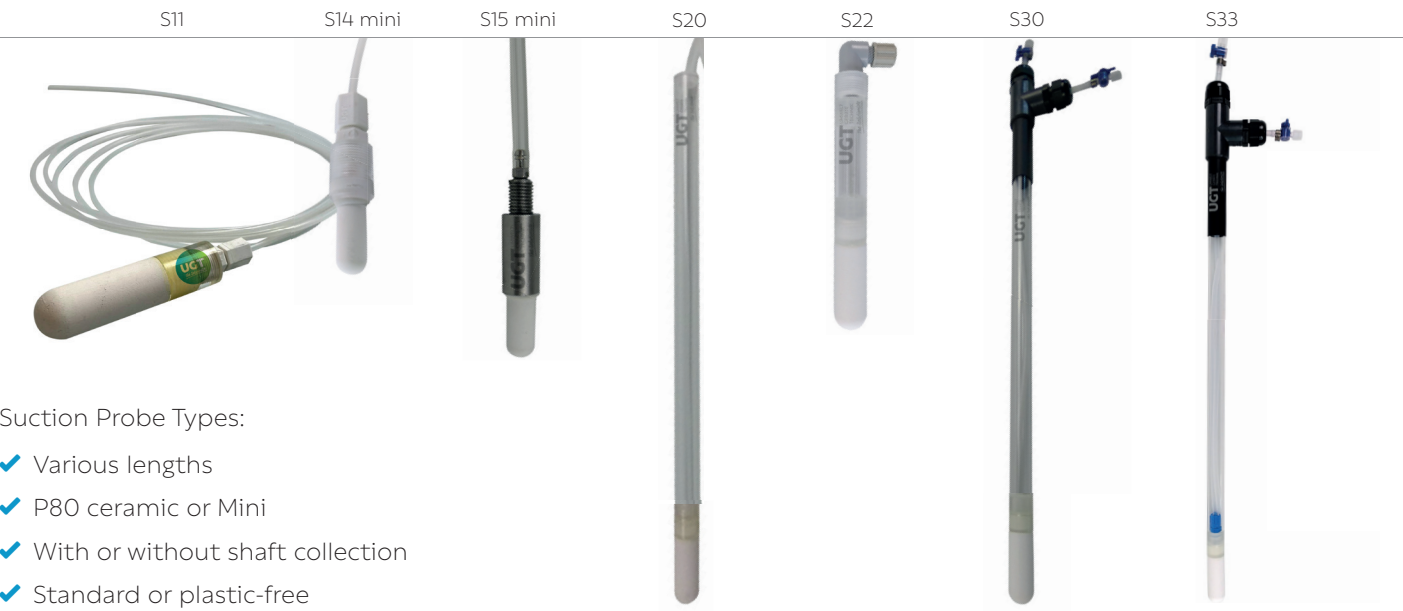
- ✓ Water tension
- ✓ Soil temperature
- ✓ Soil moisture

This polymer tensiometer does not need refilling and covers the full plant-relevant tension range up to pF 4.2.



Suction Probes

Our suction probes allow you to easily and quickly collect soil water samples, offering valuable insights into internal transport and transformation processes in the soil. With many years of experience in development, production, and installation of suction probe systems, we're sure to have the right solution for your project. Various suction probe types can be combined into a customized station using different collection methods (bottles/shaft storage) and sampling modes (mobile/permanent, hand pump/mobile pump/multi-level suction system, manual/timed/tension-controlled).



Suction Probe Types:

- ✓ Various lengths
- ✓ P80 ceramic or Mini
- ✓ With or without shaft collection
- ✓ Standard or plastic-free

Soil Moisture Sensors

Soil moisture is the water content in the soil at a given time. Our various sensors measure volumetric water content in %. Most are available as handheld devices or for connection to an NB-IoT box or standard datalogger.



SMT-100



Stevens Water HydraProbe



Sentek Drill & Drop



Stevens Water HydraGO



Stevens Water HydraGO FLEX



Soilmoisture HandiTRASE
- mobile TDR Probe