

The Importance of Peatlands, Mosses, and Wetlands for the Environment

Peatlands play a vital role in carbon storage and in the regulation of water cycles. In the context of climate protection, close collaboration between scientists, engineers, and environmental experts is essential to develop innovative solutions for the measurement and monitoring of peatland ecosystems.

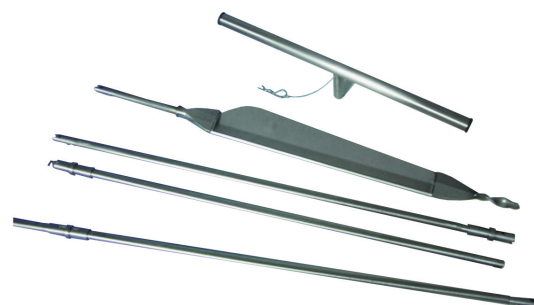
The preservation of peatlands presents several measurement challenges — and we have the right technology to meet them, enabling precise monitoring of water levels, gas fluxes, and carbon dynamics.



Moor Lysimeter



Gas Measurement Hoods



Moor Probe

Your Project. Our Solution.

Get in touch with us if you have an idea, a research project, or a specific challenge in mind. Together, we'll find the solution that fits your needs best!

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



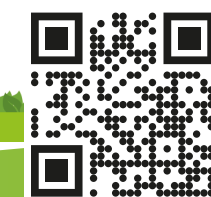
SUSTAINABLE URBAN PLANNING

Measure with us

Soil monitoring

Wastewater monitoring

Urban trees & green
infrastructure



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

Sustainable

URBAN PLANNING

Our cities face major challenges: climate change, resource scarcity, and growing traffic demand new approaches. Sustainable urban planning offers a holistic framework for making urban spaces environmentally friendly, livable, and future-proof. We provide expert consulting in:

- ✓ Studying the impacts of climate change on vegetation, soil, and water balance
- ✓ Monitoring and sampling of surface runoff and percolation water
- ✓ Landfill monitoring with our soil hydrology measurement stations

Soil Monitoring

With our solutions, you gain reliable data to make well-founded decisions for construction and agricultural projects. Whether assessing soil stability for building sites, determining the optimal vegetation, or detecting soil erosion at an early stage – our sensors deliver precise real-time measurements. This provides a solid foundation for safe construction, sustainable land management, and long-term site stability.



UGT Soil Sensors



Run-off Measuring System



Urban-Track Lysimeter

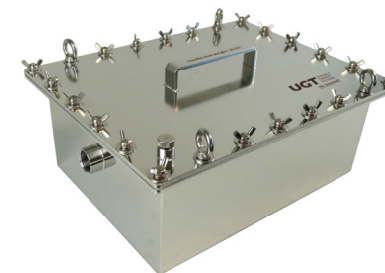
Wastewater Monitoring

With our products and solutions, you obtain precise data on water quality and the condition of surface waters. This allows you to measure flow rates, water levels, and sediment loads, as well as to identify pollutants such as PFAS or microplastics. In this way, we support cities, water utilities, and treatment plants in reliably monitoring streams, rivers, and lakes – and in detecting risks at an early stage. Thanks to our many years of project experience, we deliver practical, field-proven solutions for a safe and sustainable water management.



Planning

- ✓ Recording of hydrological and meteorological parameters
- ✓ Testing the suitability of different components or substrates in surface sealing systems

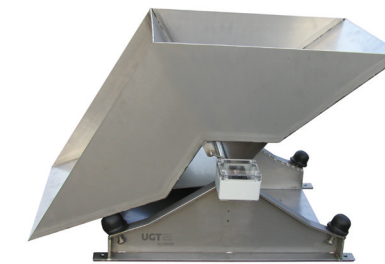


Sedimentation Box



Risk Analysis

- ✓ Assessment of specific risks related to former landfills
- ✓ Identification and quantification of leachate flow paths



Tipping Counter



Aftercare

- ✓ Evaluation of the water balance and vegetation of recultivation layers
- ✓ Verification of functional performance
- ✓ Long-term monitoring of environmental impacts



Sampling and Flow Measurement

Urban Trees & Green Infrastructure

Urban trees and green spaces are key factors for a healthy urban climate – they provide shade, cool the air through evaporation, store CO₂, and improve air quality. With our Talking Tree, we make these ecosystem services visible in real time: its sensor technology shows how each tree actively contributes to climate regulation and quality of life. At the same time, our roof lysimeters demonstrate the importance of soil water retention and infiltration capacity, especially during heavy rainfall events.

