

# READY-TO-GO LYSIMETER

## Components

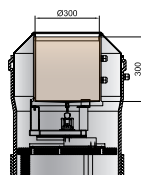
**UGT** UMWELT  
GERÄTE  
TECHNIK

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GERÄTE  
TECHNIK  
*The Solutionists*

MORE THAN  
STANDARD



Ready-To-Go-Lysimeter  
Variations/Sizes



dia- meter length	Ø 300	Ø 500	Ø 800	Ø 1130
300	1802010	1802030	1802110	1802130
600	1802000	1802040	1802100	1802140
900	1802020	1802050	1802120	1802150

+ optional

Excavation of undisturbed  
soil monoliths by the  
„BASIC“-Equipment  
Ø 300 mm (1802600)  
Ø 500 mm (1802610)  
Ø 800 mm (1802620)



Excavation of undisturbed  
soil monoliths by the „Extended“ service  
of the UGT GmbH  
Ø 300 mm  
Ø 500 mm  
Ø 800 mm  
Ø 1130 mm

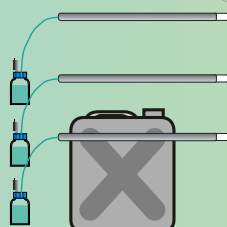


Additional sensor layer  
for RTG lysimeter (1802340)



Sampling of pore water  
Automatic and tension-controlled  
(1803010)

Manual sampling  
(1803000)



Online Data Service  
SVADSS-SF Setup fee (5600001)

Data Management:  
1 year SVADSS-RTG1 (5600045)  
2 years SVADSS-RTG2 (5600046)  
3 years SVADSS-RTG3 (5600047)  
5 years SVADSS-RTG5 (5600048)



Each RTG lysimeter includes:

- Lysimeter outer vessel of PE-HD
- Stainless steel lysimeter vessel for soil columns
- Lysimeter collar, load triangle
- Sensors:
  - Special weighing system
  - 3 soil moisture temperature probes SMT-100
  - 3 FRT full-range tensiometers

RTG control station

consisting of:

- Data logger, solar panel, battery
- Software, incl. project planning
- Secured column to protect the sensors and for mounting the solar panel

+ optional

Filling  
Manual

Monolith excavation

- „Basic“
- „Extended“ excavation service of UGT GmbH (1871000)

RTG control station  
with climate sensors (1802200)

consisting of:

- Rain gauge
- Temperature and humidity sensor with shelter
- Ground temperature sensor
- Global radiation sensor

Sampling of pore water

- Automatic pore water sampling with tension control (1803010)
- Manual porewater sampling with hand pump (1803000)

Additional sensor layer  
for RTG lysimeter (1802340)

Online Data Service

SVADSS offers a unique online data management system for your measuring systems, which is needs.

You can find various examples at:  
[www.svadss.net](http://www.svadss.net)



RTG control station  
with climate sensors (1802200)

# READY-TO-GO LYSIMETER

Measurements  
in the smallest  
footprint



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Even more info at:  
[www.ugt-online.de](http://www.ugt-online.de)

# READY-TO-GO LYSIMETER

## Lysimeter types

The Ready-To-Go Lysimeter is a small weighable lysimeter station suitable for monoliths with diameters of 300, 500, 800 or 1130 mm and length of 300, 600 or 900 mm. It is suitable for both disturbed (filled by hand) and undisturbed soil monoliths (special sampling devices).

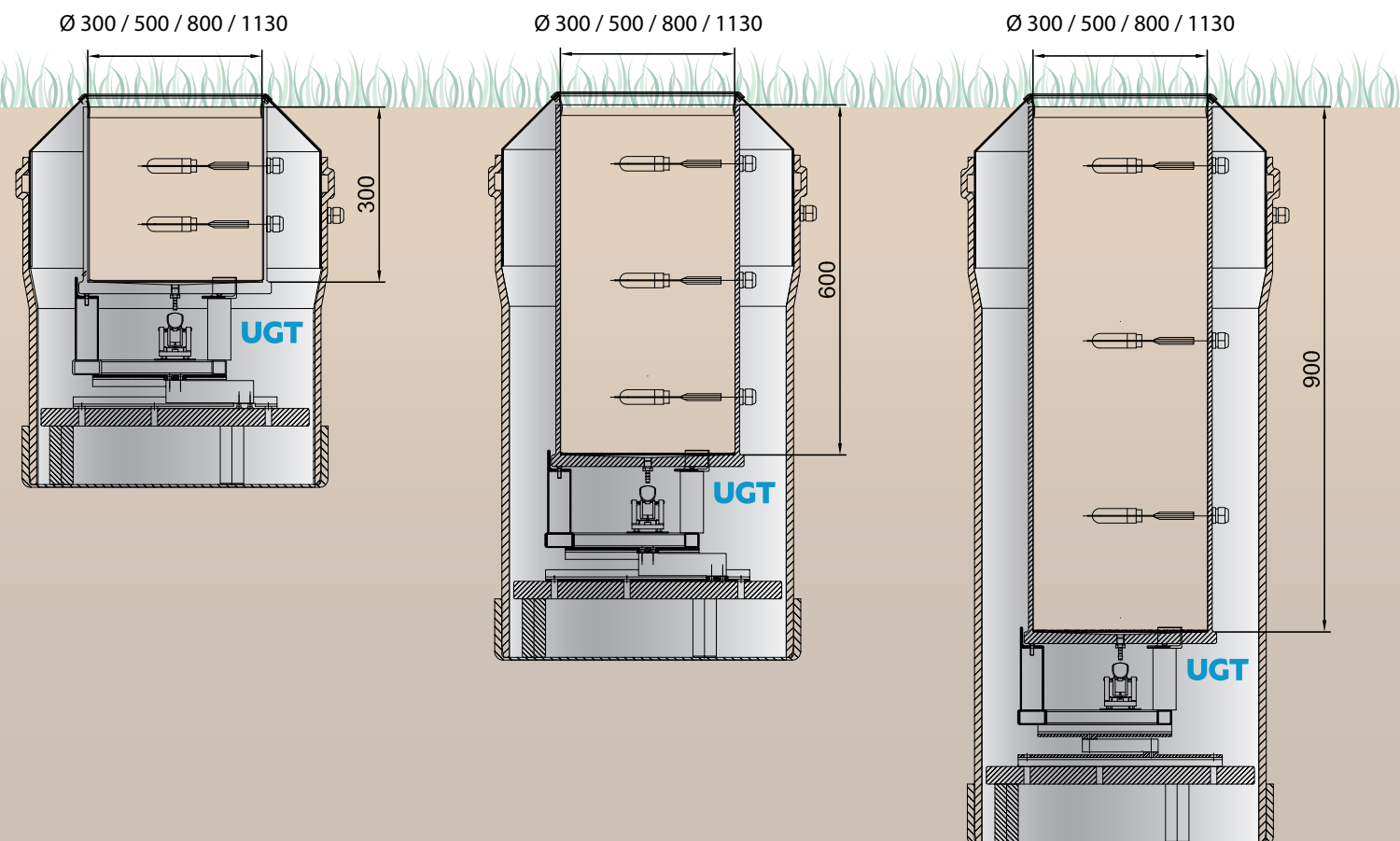
The entire station can also be set up and put into operation without special tools or personal.

The system consists of a stainless steel lysimeter vessel, a weighing system, a leachate tank with bidirectional

control of the lower lysimeter edge, a set of high precision and accurate fitting soil hydrological sensors and a control station for each. With UGT sensors such as tensiometers, water content and temperature probes, we can support and enable your investigation of ecosystem function and action.

The Ready-To-Go Lysimeter can be extended by a pore water extraction system, the UGT weather station module with climate sensors and can be extended with a tipping bucket to record the free run-out.

Variations of RTC lysimeters with the diameters of 300, 500, 800 or 1130 mm and a length of 300, 600 or 900 mm



# RTG LYSIMETER

## Application variations

### One monolith, two ways to research

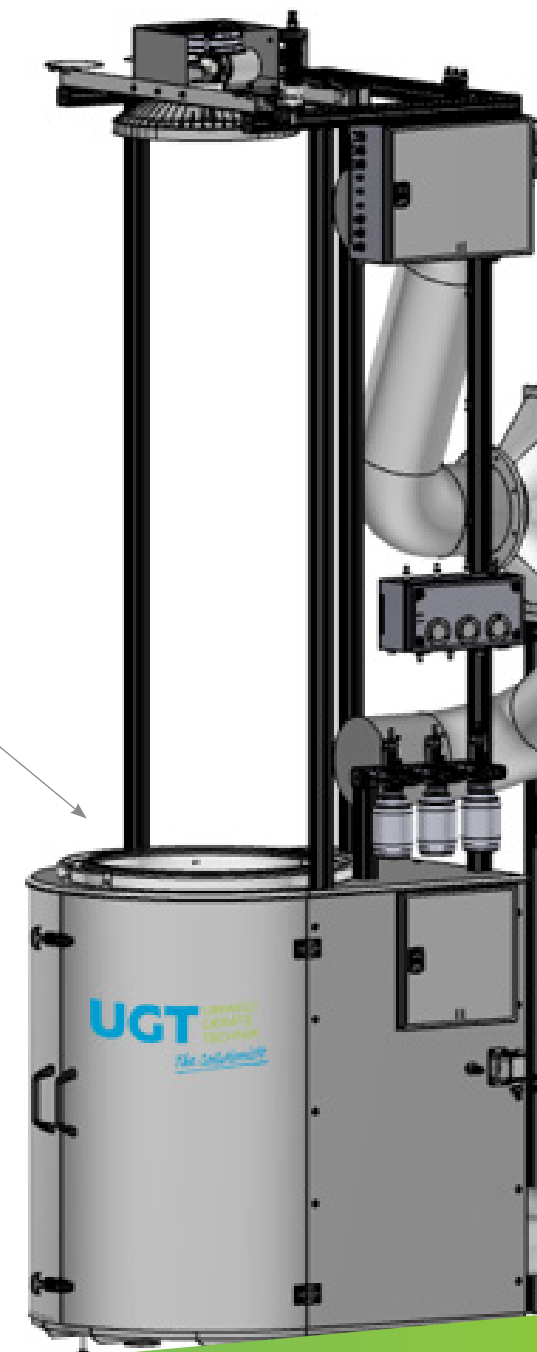
Enables measurements in the Ready-To-Go Lysimeter under real weather-conditions in the field and the targeted simulation of predictions in the laboratory in the EcoLab 500.



RTG 500 with logger column and integrated weather station for the determination of the real evapotranspiration



Lysimeter vessel



EcoLab 500