

EASY-TO-GO LYSIMETER

Specifications

Variants

- ✓ ETG 300/600 (Item no.: 1803100) including 2 x soil moisture and soil temperature probes
- ✓ ETG 300/400 (Item no.: 1803101) including 2 x soil moisture and soil temperature probes
- ✓ ETG plus 300/600 (Item no.: 1803102) including 2 x soil moisture, soil temperature and tension probes
- ✓ ETG plus 300/400 (Item no.: 1803103) including 2 x soil moisture, soil temperature and tension probes
- ✓ ETG lite 300/600 (Item no.: 1803110)

Easy-To-Go Lysimeter

TECHNICAL DATA

Total dimensions	H: 899 mm, Ø425 mm
Dimensions of lysimeter vessel	H: 600 mm, Ø300 mm
Material	Stainless steel
Sensor levels in the lysimeter vessel	200 und 400 mm from top
Sensor connections diameter	32 mm

Easy-To-Go lite Lysimeter

The Easy-To-Go is also available in a reduced variant (just sampling) for reliable collection of leachate in the field – for hydrological and environmental chemical investigations. You can derive the groundwater recharge from the collected amount. The samples obtained are ideal for chemical analyses – for example, to investigate nitrate pollution or PFAS.



EASY-TO-GO LYSIMETER

our low-cost NB-IoT
solution

- Determination of soil water balance
- Easy to set up, operate and maintain
- Enables high spatial repeatability



EASY-TO-GO LYSIMETER

Easy insights into the „black box“ of soil

Our Easy-To-Go Lysimeter (ETG) complements our product range for field lysimeters in the low-cost range. It offers a standardized alternative to our flexibly equipped Ready-To-Go lysimeters and still provides all the essential functions for determining the most important soil water balance parameters.

The ETG comprises a lysimeter vessel with a diameter of 300 mm and a height of 600 mm as well as two soil moisture and soil temperature sensors (SMT-100), a tipping counter, a weighing system and a mast with data logger. In combination with an optional NB-IoT weather station, the ETG system also enables precise analysis of the local water balance.

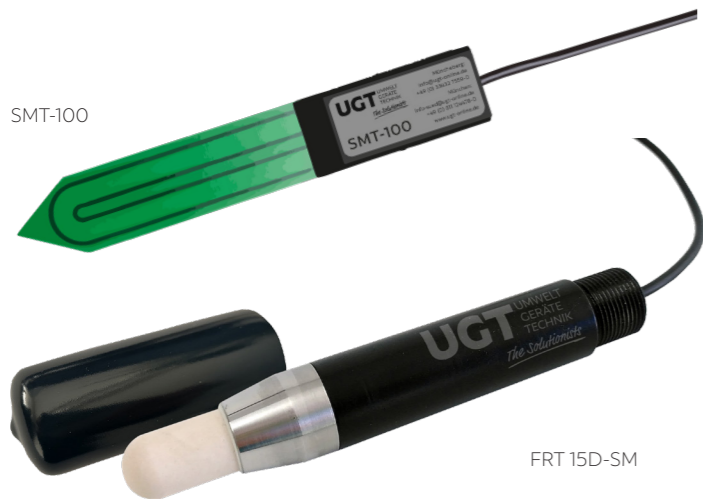
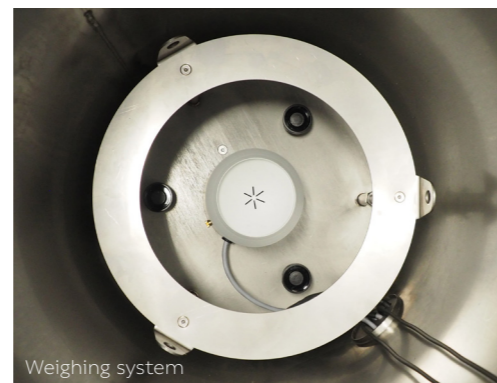
Precise water balancing directly on site

Evapotranspiration can be calculated directly and reliably from the weight changes of the ETG Lysimeter. The basis for this is the precision weighing system from UGT.

With the affordable design of the ETG lysimeter, you can measure water balance variables directly or set up a dense lysimeter network, even on a limited budget.

The ETG Lysimeter is available in four different versions, each with a diameter of 300 mm:

- ✓ two height variants: 400 mm or 600 mm
- ✓ different soil sensor equipment:
 - two **SMT-100**: measures soil moisture and soil temperature
 - or two **FRT 15D-SM** units: in addition to soil moisture and soil temperature, these units also measure soil water tension (**ETG plus**)

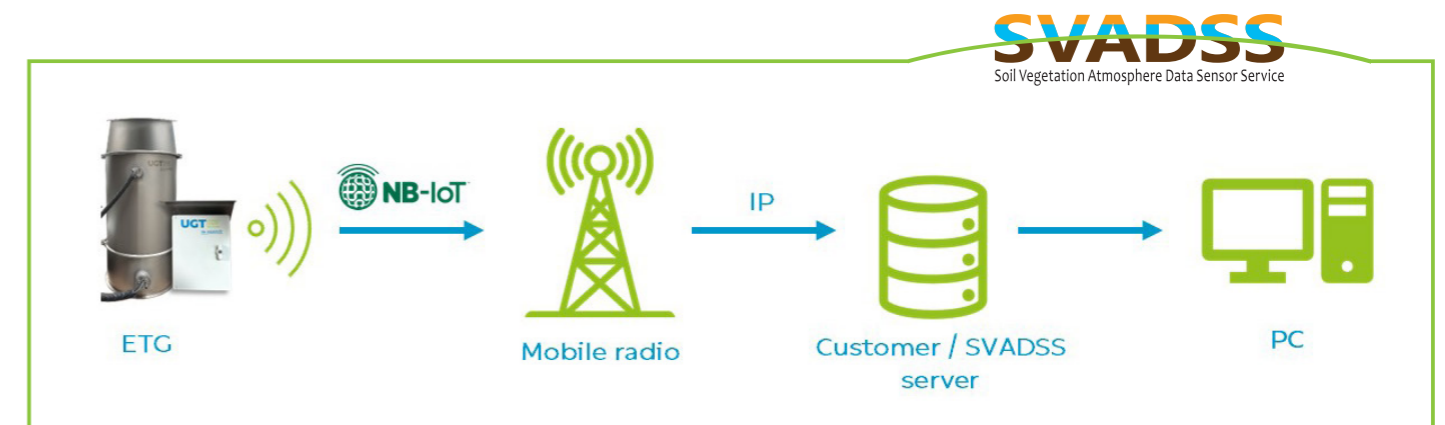


Data Storage and Visualization

One of the following three data transmission or data storage options is available:

- ✓ NB-IoT Power Box
- ✓ NB-IoT Power Box with data storage expansion
- ✓ Data Power Box with SD card

The „Soil Vegetation Atmosphere Data Sensor Service (SVADSS)“ offers a unique online data management system for your ETG lysimeters. Data is collected and automatically sent via NB-IoT.



Lysimeter		Weather Station	
soil moisture 20 cm	27.6 %	air humidity	50.9 %
soil moisture 40 cm	11.0 %	air temperature	21.9 °C
temperature 20 cm	16.8 °C	wind speed	1.2 m/s
temperature 40 cm	16.8 °C	wind gust	1.2 m/s
lysimeter weight	71.709 kg	wind direction	SW
water detection	OK	global radiation	342.9 W/m2
drain sum	0.0 ml	rain sum	0.0 mm
voltage	12.8 V	leaf moisture	n.a.
signal strength	-80 dB	signal strength	-81 dB
		voltage	3.7 V