



BRIEFLY:

Item : Telemetric Weighting Lysimeter

Location: Technical Educational Institute of Thessaloniki and Technical Educational Institute of Mesolagi (Greece)

Period : 2012 - 2013

PROJECT ADMINISTRATORS:

Technical Educational Institute of Thessaloniki

Technical Educational Institute of Mesolagi

Important !

The Lysimeters are 100% designed and manufactured by our company

Important !

They are the first Lysimeters in Greece after more than 40 years

Project identity

These **Electronic - Telemetric - Weighting Lysimeters** are products that are designed and manufactured by our company.

They are a result of a long time experience in measuring systems and in a combination of them.

The instruments include further materials with high quality which are manufactured by manufacturers with high worldwide acceptance.

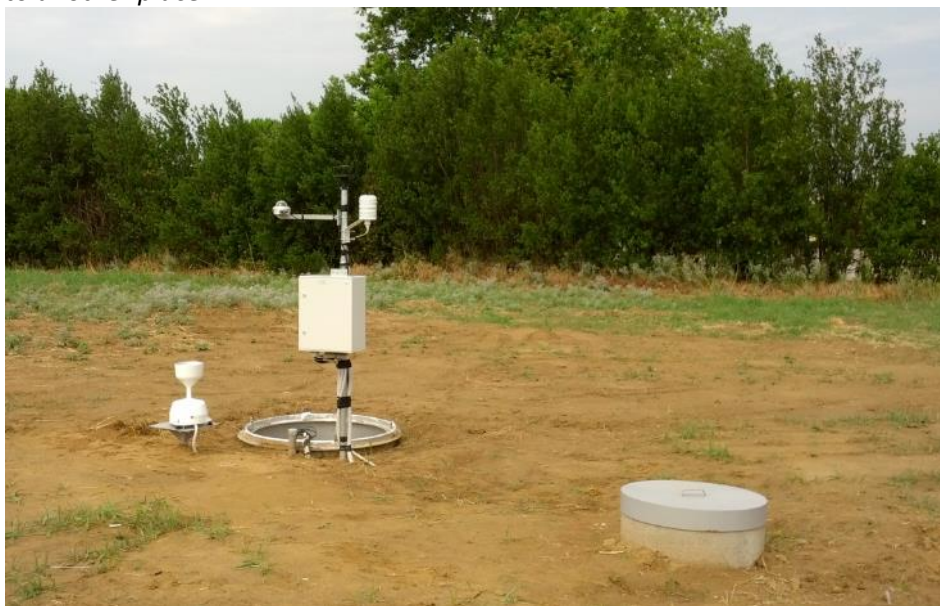
The construction of the metallic parts was made by our company, to our laboratory and also to cooperating laboratories.

Basic points of the designing

The Lysimeters are completely automated, based on digital measuring, logging and managing system.

The data transferring is continuous with the use of UHF and WiFi technology. All the parameters are accessible by the users via internet. All the sensors can be removed, checked and calibrated.

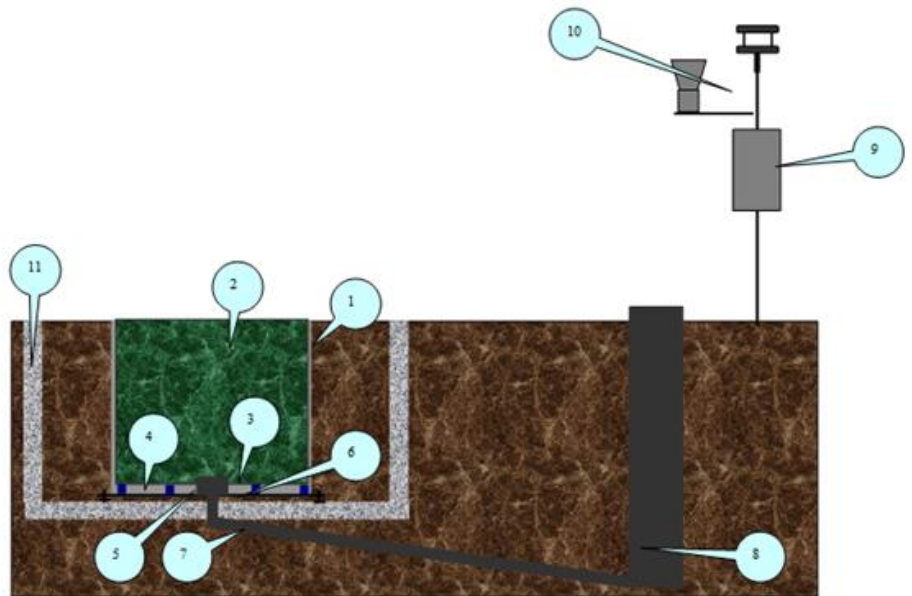
The whole lysimeter can be disassembled and if it is required it can be removed to another place.



Main technical specifications

Diameter	120cm
Height	120cm
Maximum measured weight	8000 Kg
Resolution	0.5 Kg
Accuracy	1-2 Kg
Weighting system type	4 X Load Cells
Constructing material	Stainless Steel
Height of the drainage tank	250cm
Diameter of the drainage tank	50cm
Material of the drainage tank	Stainless Steel
Accuracy of the water drainage measurement	1mm

CONFIGURATION OF THE SYSTEM



1. External tank of the Lysimeter, made of stainless steel.
2. Internal tank for the soil and for the plants, made of stainless steel with double bottom.
3. First bottom of the internal tank, made of stainless steel.
4. Place of the first concentration of the drainage water of the tank.
5. Free outflow points of the drainage tank.
6. Weighting platform with load cell and analogue output.
7. Tube for the routing of the drainage water to the collecting tank and tube for the routing of the cables.
8. Collecting tank of the drainage water with built in water level sensor.
9. Data logger, electrical power supply system and automations.
10. Meteorological station.
11. Concrete well.

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