

Mottes Tensiometers

**IRRIGATING THE RIGHT WAY WITH THE TOP
QUALITY TENSIO METER & THE MOST
ADVANCED MONITORING INTERNET SYSTEM!
AVAILABLE ANYWHERE ON PC & SMARTPHONE**



Mottes Tensiometers

THE CONCEPT

Mottes Tensiometers - manufacturers of high quality tensiometers since 1978 is proud to present an innovative concept in measuring and monitoring the plant water consumption.

The concept brings a solution for remote sensing and monitoring of the soil water tension as well as soil and air temperature, to assist the decision maker with accurate and reliable data wherever he may be.

The solution is derived from a combination of accurate measuring technology, reliable data transmittance by cellular and internet networks and a professional presentation of accumulated data. This system solution is available at any internet connection everywhere and both the grower and his consultant can follow-up the data from different sites at the same time.

The user can detect the irrigation performance, confer with others, analyze the plants needs and receive recommendations from his consultants.

SMS to your cell phone when the plant needs water

Efficient irrigation scheduling that can lead to a saving in water, fertilizers and improving yield and crop quality is the great benefit of this system solution.

A new and innovative concept in sensing the plant water needs



TECHNICAL DETAILS

Analog Electronic Tensiometers made of durable plastic tubes filled with distilled water and contains high quality porous ceramic caps, which enable superior sensitivity and quick respond to water tension variation.

The electronic water tension sensor, which is connected to the tensiometer, is fully temperature compensated and made of high quality materials. The output of the sensor is 4-20mA.

The standard lengths are 20 & 40 cm. depths but 60 cm. depths are also available on special request.

The GSM Logger Alarm System consisting of:

- 6 analog inputs 4-20 mA adapted to the tensiometers.
- 2 special inputs for soil and air temperature sensors.
- A low power data logger, which is remote-controlled and programmed through cell phone by SMS.
- A cellular modem supporting GSM technology that transmits the collected data to the internet server by SMS messages at desired intervals.
- A sim card holder.
- Power supply is 1.5V-8AA alkaline batteries. In normal operating conditions, one set of good quality batteries should last for at least a whole season.
- The shield case and all the connectors meet the waterproof standard of IP-67.

An internet monitoring center including a central server that collects and stores all the data from the field stations and present it to an authorized user. All users purchase an initial one year service package, included in the purchase price, and thereafter have to renew the service once a year. The same is with the sim card that is purchased once from the local cellular phone dealer and then a year after have to renew the service if needed.

**Graphic current reading in milliBars
available anytime at any PC everywhere**

THE MAIN ADVANTAGES OF THE SYSTEM

- Simple operation by the user, which does not require any preliminary know-how or special skill.
- The data received in graphic current reading in milliBars is available anytime everywhere at any PC and Smartphone!
- A cost-effective investment affording the user assistance in saving water, detecting irrigation faults in real-time, and possibly, significantly improving yields and quality.

The Mottes Tensio-System enables the grower irrigating the right way!



THE SOIL SOLUTION EXTRACTOR AND THE CONCEPT

The Soil Solution Extractor which was invented by Mr. J. Mottes in 1975 has created a new concept in monitoring the plant nutrient requirements. The main idea is to enable the user to draw the soil solution directly from the plant's root zone and to carry out immediate tests on the spot. This concept provides growers with all necessary information on plant nutrient requirements. The benefit is to provide reliable in-field testing, in real time, by drawing a solution from set locations throughout the plant's entire growth period. This procedure provides growers with in-depth information on all soil fluctuations such as: Electric Conductivity, Nitrate & Nitrite, Chloride, Potassium, Phosphate, Water Hardness and pH.

All these tests are organized in a compact and handy test kits case - **The Agri Ferti Lab.**

This is a very helpful and practical set which enables the growers to easily check and then to receive the results rapidly at site without the needs for a special skill.



THE MOTTES EXTRACTOR MAIN FEATURES

- High quality porous ceramic caps, which enable superior sensitivity to draw high volumes of soil solution at short time intervals.
- The ceramic caps are duly made of inert materials, which are not effected by the incoming fertilizers. Thus, all values of the test results remain exceptionally accurate and reliable.
- Compact and efficient structure which assure easy operation and long lasting for many years of usage.
- High reliability due to Mottes quality control system.



The Agri Ferti Lab



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