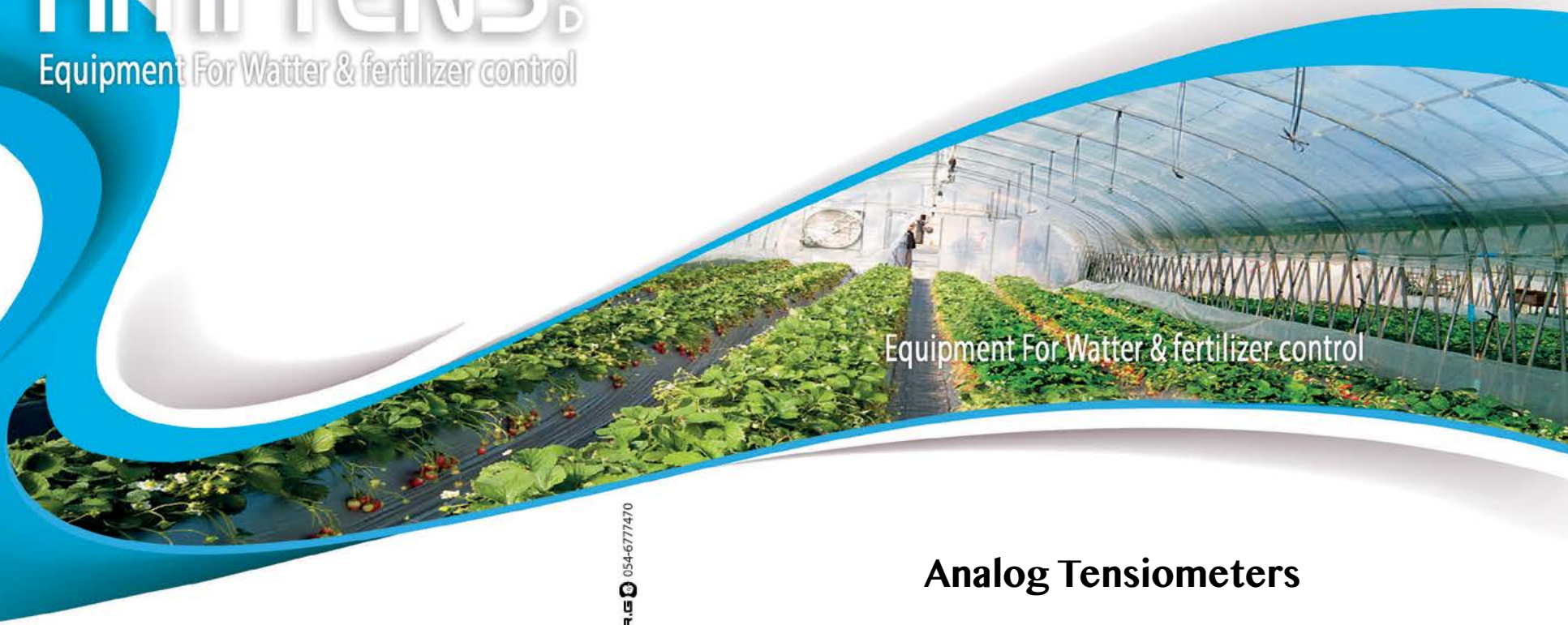




AMI TENS LTD

Equipment For Water & fertilizer control



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AVNER.G 054-6777470



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Analog Tensiometers

The growing demand for food supply, on one hand, and depletion of usable water sources, on the other hand, emphasize the importance of efficient and water saving technologies in agriculture. The Tensiometer is the best tool for advanced, reliable monitoring in the field. The Analog tensiometer is using electronics for a more precise and efficient performance.

Analog Tensiometers

An Analog Tensiometer, is principally identical to any other Tensiometer, with one major difference: Instead of having a mechanical gauge there is an Electronic Vacuum sensor, also named Analog Transducer, that transmits, via cable, vacuum readings to a computerized monitoring or control system.

The main use:

- Continuous, long term follow-up of soil moisture changes with no need of physically being on site.
- Viewing on-line or historical data anywhere, any time, through various devices, Such as P.C. Smartphones, Tablets etc.
- Optional, Automatic irrigation start/stop according to soil water condition.

Ami-Tens' Analog sensors have standard electronic outputs (4-20mA or 0-2V), which are compatible to most monitoring or control systems available in the market.

Specifications :

The device's body – the same as all Ami-Tens' tensiometers, whereas beneath the transparent window there is a TEE connector in which the Analog Transducer is screwed. On top of the device there is a screwed cap for water refill.

The Analog Vacuum Sensor (Transducer)

Its body is a stainless steel Cylinder (L=6cm or 10cm, D=2cm), with a G 1/4" threaded connection.



Electro-Mechanical details:

The Transducer converts Physical values (water tension) to electrical standard outputs. There are 2 basic models, differing from each other by the output mode:

- 4-20mA output, to measure Currency changes,
 - 0-2V output that measures Voltage changes.
- Measured changes of Currency or Voltage are proportional to changes in water tension and thus, reflect the changes of soil moisture levels.

Measurement range:

- Standard model : 0 -100 CB (Kpa) or 0-1000mB.
- Low Tension model, (for soilless media or sand): 0-200Mb.

Operation Power:

- For 4-20mA model: 10-24V
- For 0-2V model : 3-12V (The inlet is stabilized)

Temperature compensation: Between 0-70C⁰ Length of cable between the sensor and the Logger– up to about 200 M.



General remarks:

- The top cap, being used for water refill, must always be hermetically closed.
- In order to prevent algae growth we recommend to add a few drops of liquid home Chlorine solution into the pipe, or, alternatively, cover the transparent part by an Aluminum foil or a small pipe or any other material.
- Upon ordering please state the required measuring depth.



Reading data on site



Data transfer to logger



Data up-load to the Cloud



View data in your computer/cellphone

