



iMetos ECO

iMetos®ECO is a wireless, cost effective, continuous soil moisture and salinity monitoring station. The system is utilising Pessl Instruments Ltd. world renowned fieldclimate technology.



Application:

- Irrigation management & fertigation
- Long/short-term soil monitoring
- Golf, sports & park turf management
- Geotechnical measurement
- Research and long term weather and climate studies
- Soil and ground water remediation
- Flood control forecasting & forest fire condition forecasting

Benefits:

- Up to 80 % water savings with the same or better results
- Instantly get SMS warning in case critical events (too much or too little soil moisture)
- Optimize soil analysis and irrigation scheduling
- Reduce wash out of fertilizer
- Easy monitoring of remote sites through the internet
- Review real-time data and trends from the mobile phone anywhere you are
- Full automation of the irrigation using iMetos ICA
- Cost effective and robust

The iMetos®ECO system consists of a solar powered main unit with a powerful logger and a build GPRS radio modem. The sensor unit is connected by cable to the logger for highly flexible field mounting. The data captured is directly sent to the fieldclimate webpage allowing for user friendly display and management of all data directly on every internet device (PC, Cell phone, Notebook, Netbook).



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Hardware and Sensor Technology:

Pessl instruments manufactures highest standards hardware in terms of logging as well as in sensors technology. A wide range of sensors are manufactured by Pessl Instruments and others are coming from reputable OEM suppliers (Irrometer, Decagon, Sentek, Aquaspy) to ensure the best product for your application. According on

the needs, budget, soil type and crop Pessl Instruments offers the best soil moisture monitoring solution based on suction (tensiometer, watermark) or capacitance sensors.



worldwide web, the mobile phone and the iMetos ICA irrigation control box.

Function and Operation:

This password protected webpage is the central command unit for a scalable modern state of the art irrigation management. The relevant soil moisture values are logged every five minutes and permanently sent to the internet climate data base at a user pre-defined interval. iMETOS® ECO only needs a valid GPRS contract with good GSM coverage in the area to be operational. iMETOS® ECO reports its data to the internet but can also fully automatically warn the user on critical situations in the field (too much – too little water in the fields) by SMS and/or can fully automatically run (start/stop/interrupt) irrigation controller systems using the multilingual webpage www.fieldclimate.com. All sensor boxes are supported through the proprietary Pessl Instruments sensor chain interface. The fieldclimate.com platform offers a seamless and easy to operate platform for cost effective and secure automation of your irrigation system using the

Irrimet Irrigation Manager Web Software:

The web based software allows to you define agronomic warning thresholds via web or mobile phone and allow authorized remote users to download, store and analyze data instantly. Thus, farm manager, irrigation consultants and agronomists can efficiently work together und provide real-time advice in order to optimize results.



Technical data at a glance

<i>μController</i>	ATMega
<i>Protection class</i>	IP65
<i>Memory</i>	1MB/300 days
<i>GPRS</i>	Wavecom quad band

<i>Size/Weight</i>	230 mm * 110 mm * 80 mm – 2 kg
<i>No. of chain</i>	6 chains (2 on each digital board)
<i>Max. cable length</i>	Range Total length 250 meter
<i>Temp.</i>	-20°C to +60°C