CityGal

Central irrigation control from Galcon Water saving management for turf irrigation

CityGal a central control solution for water budgeting

CityGal a web based system controls and monitors municipal turf irrigation.

CityGal continues the legacy of Galcon products that are famous for their simplicity, efficiency and reliability at reasonable prices.

CityGal combines state of the art communication and software components including cellular data communication and web based management server that allows full control of the irrigation from anywhere anytime.

CityGal allows flexible water quantities for different plant types by one click and also automatic change in irrigation according to weather.
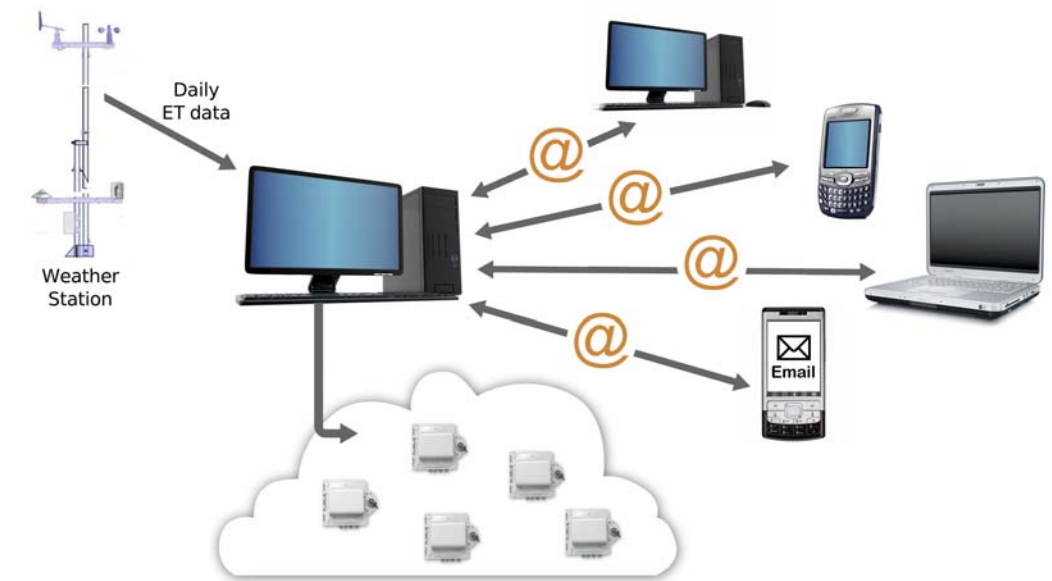
CityGal System

- Management and inspection of remote control units all over the city
- Management and execution of irrigation program using secured web server
- Ability to set irrigation policy locally, regionally or centrally.
- Four daily programs for each valve
- Long term scheduling with ability to exclude special dates
- RTU with ability to manage up to 450 tasks
- Identification and alert of irrigation faults with notification to Email and mobile devices

CityGal control center

- Management of unlimited number of controllers in the field
- Web based control center allowing access from any PC or PDA using SSL secured access
- No software installation required
- Dynamic Graphic User Interface (GUI) of all the irrigation controllers on a map or air-photograph
- Simple and user friendly programming of irrigation schedule and duration/quantity
- Irrigation scheduling by days of the week (two weeks plan), interval or odd even days
- Ability to add and reduce water amount to different types of vegetation all over the city by one click or automatically according to weather change
- Central rain delay
- Water usage reports per valve and zone in any desired time period
- Water amount planning and execution follow up
- Alarms to Email and mobile devices
- Events log

CityGal RTU

- Controller with built in cellular communication to the control center
- No need for solar panel or external power source
- Internal battery operating the unit for up to 5 years
- Low costs of GPRS (data) usage
- Internal antenna inside the unit box
- Compact unit IP64 enclosure fit for installation inside a valve box
- Remote Integration of the unit – no need for field technician
- Plug & Play
- Valves operation independently or in sequence with 4 different start times for each valve
- Irrigation by time or by quantity
- 8 outputs for DC valves per unit
- Digital input for water meter reading (pulse)
- Fertilizer pump operation
- Alarm in event of opening the unit cover or the valve box door
- Flow rate control (with alarm system)
- Uncontrolled water alarm (with alarm system)
- Future ability to work over municipal WiFi networks

ET* based irrigation

The CityGal system is able to read online information from weather stations and to calculate the ET level on real time.

The CityGal server is calculating on a daily basis the required irrigation quantities based on measured ET and updating the irrigation programs in the CityGal RTU's accordingly.

This way irrigation is planned according to real time needs of plants and water is saved.

* ET – EvapoTranspiration is a climatic data that based on solar radiation, wind speed, temperature and few other parameters. The ET reflects the amount of water consumed by the plant every day.

GALCON
Computerized Control Systems
The Science of Solutions

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