

dom|oS
home



luxury
residence



FROM DOMOS EXTENDED, THE ADVANCED DOMOTIC SYSTEM MADE BY DSSTECH, IT WAS DEVELOPED DOMOS HOME TO MANAGE RESIDENTIAL BUILDINGS.

DOMOS HOME IS THE COMPLETE SOLUTION THAT CAN BE APPLIED TO BIG APARTMENT UP TO LUXURY RESIDENCE.

DSSTECH DEVELOPS A DOMOTIC SYSTEM ACCORDING TO CUSTOMER REQUIREMENTS, OFFERING ASSISTANCE FROM DESIGN TO POST-SALE PHASE.

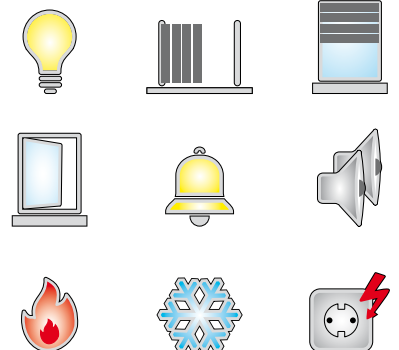


DSSTech was commissioned to automate, with DomOS Home, a private home of 250 sq.m. in Gold Class.

As a result of many requests made by the client, DomOS offers maximum flexibility and is able to handle any type of function in all the home's areas.

CUSTOMER REQUIREMENTS

- LIGHTING CONTROL OF THE WHOLE HOME
- EMERGENCY LIGHTS MANAGEMENT
- SECTIONAL MANAGEMENT OF GARAGE AND OUTSIDE GATE
- AUTOMATION OF 12 ROLLING SHUTTERS, 3 MOSQUITO NETS , 1 AWNING
- REPORTING OF OPENING STATE FOR EXTERNAL DOORS AND WINDOWS
- MONITORING OF 8 WATER LEAKAGE DETECTORS AND 5 TECHNICAL ALARMS
- AUDIO DIFFUSION IN 4 DISTINCT ZONES
- MANAGEMENT OF HEATING AND COOLING SYSTEMS OF 19 DISTINCT ZONES
- MODULATION OF SPEED FUNCTIONING OF 9 SPLITTERS
- ENVIRONMENTAL HUMIDITY DETECTION FOR THE LIVING AREA
- HOT, COLD AND DOMESTIC HOT WATER PRODUCTION MANAGEMENT
- SOLAR THERMAL PLANT MANAGEMENT
- MANAGEMENT OF 2 EQUIPMENT FOR FORCED VENTILATION
- 11 LOADS CONTROL



DOMOTIC SOLUTIONS

With the application of DomOS Home system all the equipment inside the home can communicate and interact with each other.

The end user sees the whole packet as a completely integrated system that can be managed from a single interface optimized to suit his needs.



LIGHTING MANAGEMENT

DomOS controls 102 light points (76 ON/OFF light points, 3 timed, 9 dimmerables, 3 with time slots, 11 crepuscular lights). In the sleeping area, the LED walkover lights are activated at specific times and only when it is dark, similar management is applied to the exterior lights of the garden. The lights in the transit zones are timed, all to minimize wastage.

EMERGENCY LIGHTS MANAGEMENT

In case of power failure, the system forces the shutdown of all the house lights, it activates the continuity group and forces the turning on of emergency lights.

SECTIONAL AND GATE MANAGEMENT

Home automation, through the interfacing to the sectional's control unit, provides the opening and closing of the sectional, locally and remotely; through the interfacing to the video entryphone, it manages the opening of the gate.

MANAGEMENT OF ROLLING SHUTTERS, MOSQUITO NETS AND MOTORIZED BLINDS

It is possible to manage the opening and closing of 12 shutters, 3 mosquito nets and 1 shading curtain. In addition there are buttons that can perform the globally opening and closure. In case of rain, the system forces the closing of the rolling shutters.



OPENING STATE MONITORING OF THE DOORS AND WINDOWS

It is monitored and reported the opening state of 12 doors, 15 windows and of the sectional.

TECHNICAL ALARMS MONITORING

The system monitors 8 flooding sensors and 5 technical alarms and in case of alarm it sends a signaling SMS immediately.

MANAGEMENT OF AUDIO DIFFUSION IN 4 DIFFERENT ZONES

The audio signal from 2 stereo sources (eg. CD and TUNER) is sent in 4 areas (rooms) where are installed the audio finals: in every area it's possible to select the desired source and adjust the volume.

HEATING AND COOLING MANAGEMENT

Through the installed probes in the various rooms, the home automation system maintains the temperature to the desired value acting on the thermostatic heads installed in their respective manifolds, on the boiler, heat pump and pumps.

SPLITTER CONTROL

The splitter's speed is adjusted to compensate the thermal drop necessary to ensure the chosen temperature values.

HUMIDITY DETECTION

The system detects the environmental humidity of the living area and it displays the value in the touch screen.

Through Smartphone, Tablet and PC the final user can control and command the entire home in a simple and intuitive way.

The DomOS Home system brings the control to a higher level resulting in the raising of the efficiency and reliability of the building.



POSSIBLE IMPLEMENTATIONS

PHOTOVOLTAIC PLANT MONITORING

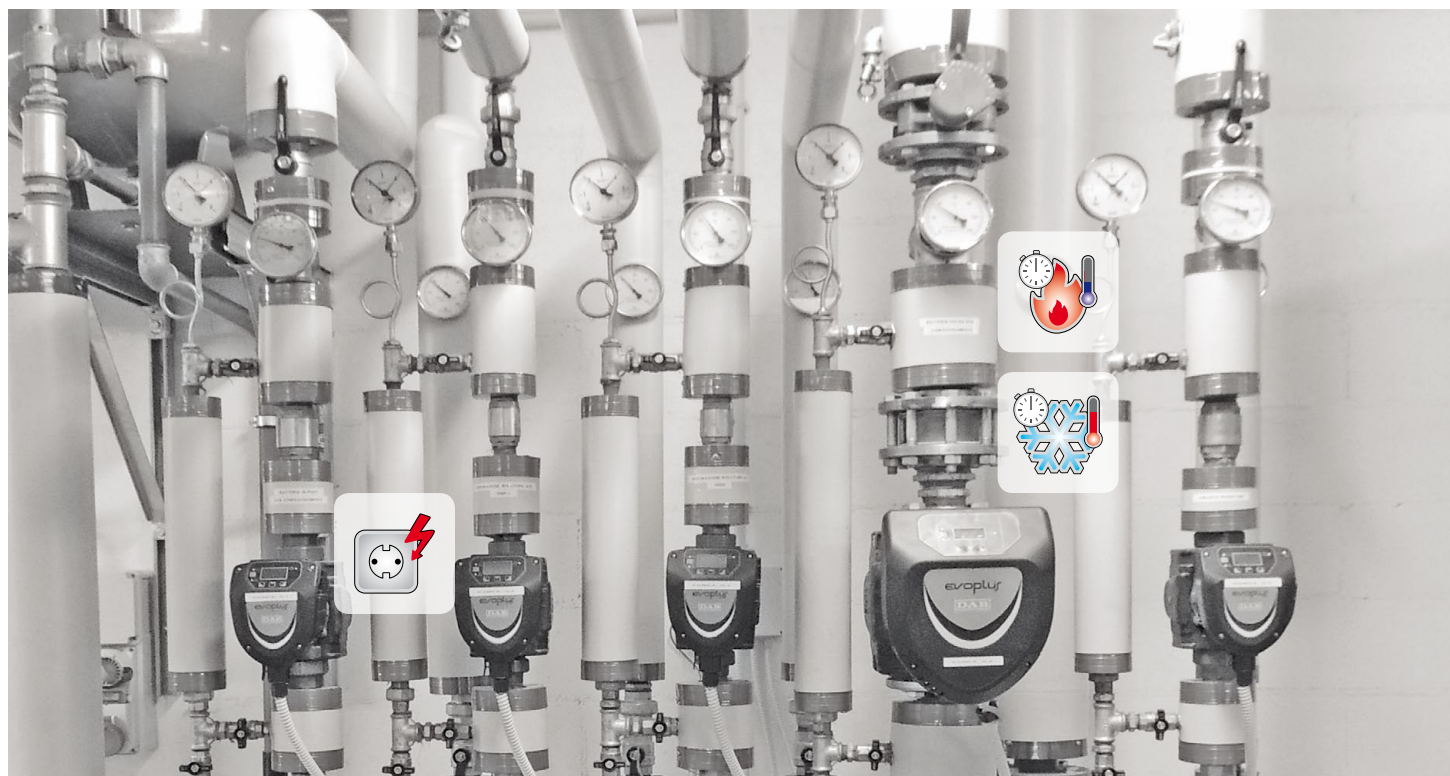
DomOS can monitor in real time the energy produced by photovoltaic panels and can record the energy that is produced, self-consumed and fed into the grid.

VIDEO SURVEILLANCE

On the interface of the home automation system you can view IP cameras that, in combination with a specific NVR (digital recorder), allow the video surveillance of the home.

DEHUMIDIFIERS MANAGEMENT

It's possible to manage the dehumidifiers to maintain constant the humidity level to a desired value.



PREPARATION OF WATER TO USE FOR HEATING OR AIR CONDITIONING AND SANITARY HOT WATER

The home automation system provides for the production of water used for the home's cooling via the heat pump; the water used for heating in spring and autumn and in winter through the heat pump, or otherwise using the boiler. To produce domestic hot water are managed the pump and the heat sources (boiler or heat pump).

SOLAR THERMAL SYSTEM MANAGEMENT

DomOS activates the pump that manages the circulation of the thermal solar plant fluid according to the temperature difference detected by the probes on panels and accumulation boiler.

MANAGEMENT OF FORCED VENTILATION MACHINES

The system interfaces itself with the management control unit of the aeration machine and goes to adjust the operating speed (between 3 available V_{min} , V_{media} and V_{max}) via specific sequences initiated by buttons or touch screen.

LOAD CONTROL

The system provides to the disconnection of the less-priority loads when it detects an excess of power beyond the available value, so as to avoid the counter shot.

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building



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