

NETx Shutter Control

Automatic shading system based on the season, weather, position of the sun and 3D building geometry

Functions

3D Design

- 3D model of the building and the surrounding objects based on construction plans
- Simulation of the shadow of the building and the surrounding objects based on the 3D model
- Simulation for each minute of the whole year

Automatic control

- Automatic control of the blinds based on simulation results and other run-time parameters
- Adaption of the control logic to the specific project requirements possible
- Besides current weather situation consideration of other parameters (manual override) possible
- Special operating and safety modes can be considered

Considering the weather situation

- Integration of current weather data from one or more weather stations
- Type of weather station arbitrary
- Diffuse light calculation
- Combination with sophisticated stations (global solar radiation) possible

Shading groups

- Control of the blinds individually or per group
- Dynamic change of the shading groups possible

Slat adjustment

- Automatic control of the position of the blinds or the position of the slats
- Adaption of the slat adjustment according to the elevation and azimuth angle of the sun

Manual control

- Manual control in addition to automatic control possible
- Adaption to project specific requirements

Dynamic calculation of the brightness values

- Definition of brightness thresholds and hysteresis for each automation group for including current weather data
- Avoiding glaring due to a low position of the sun by dynamic adjustment of the threshold according to the elevation angle of the sun

Management interface

- Web based management interface for monitoring the status of the system
- Status of the shading groups or individual blinds
- Monitoring of weather stations
- Manual override of shading groups possible
- Changing of configuration parameters

Minimum System requirements

Hardware

Depending on project size. At least:

- PC: Intel or AMD - 1.8 GHz (multi-core recommended)
- RAM: 8 GB
- Hard disk: 64GB

Supported operating systems

- Windows 10
- Windows Server 2016 (64 bit)
- Windows Server 2019 (64 bit)

Licensing/order information

Software	Product ID
Customized	S12.04.0.00.0001

NETx Shutter Control is always an individual solution. Please contact us for further information.

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