



Switch to efficiency

Who is GIA Systems

GIA Systems is a Belgian manufacturer of integrated pluggable solutions and building automation for electrical installations in wide range of building installations such as offices, hotels, elderly homes and schools.

Our wide range of specialist products benefit all stakeholders in the development of building services: owner/end user/building manager, the architect/engineering/consultants and the electrical installer.

Screen control systems

GIA Systems offers systems for screen controls, which are available meeting all kind of required functionalities.

There are 4 possible systems offered by GIA Systems, to achieve good screen controls depending on customer demand.

Flexbox®

Decentralised cabling system with 'dumb relay' control. Simple local manual control without any automation via weather sensors. Not connectable with other controls.

SmartFlexx®

Partially expandable/connectable with local lighting control or HVAC control.

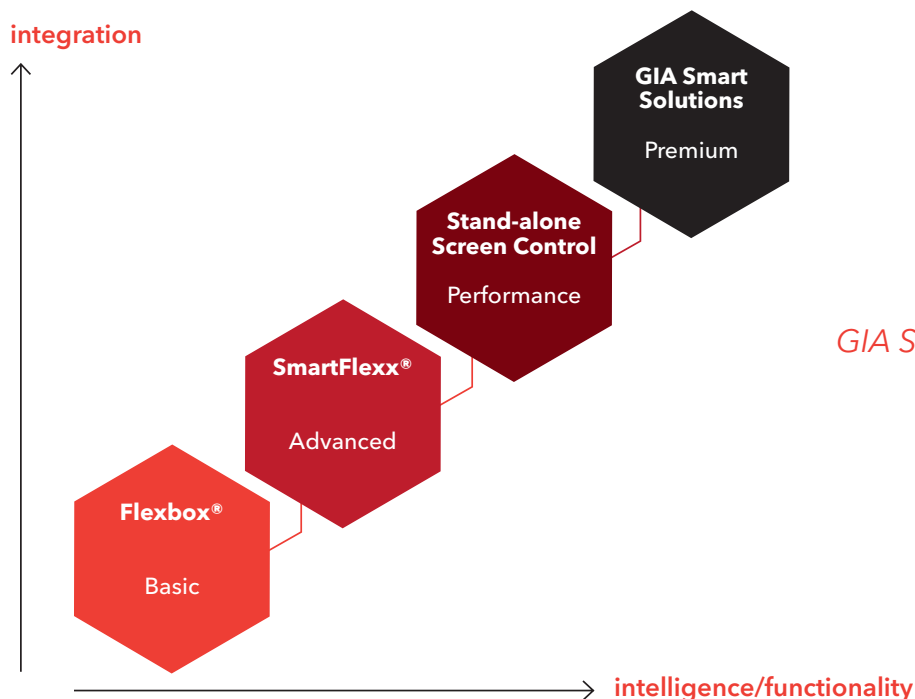
Pluggable solution, pre-commissioned by GIA Systems off site, in order to save time on site. Local area customisation is possible.

Stand-alone Screen Control

Plug & play: Easy to connect yourself, without commissioning. Including a simple do-it-yourself manual.

GIA Smart Solutions

Expandable to/with other controls, like lighting controls or HVAC controls. Best choice for intelligent solution, flexibility and integration possibilities. Connection with other building management systems via Bacnet or Modbus. Commissioning and parameterization necessary.



*GIA Smart Solutions System:
"In development
continuously
for 20 years".*

We classify the GIA systems according to their ease of use and inherent intelligence and/or functionality. The more intelligent the system, the more energy you will save and the more comfort they provide for the user.

A GIA screen control system for multiple applications

Controlling the comfort in a building is done through the use of blinds, such as screens on the outside or slats on the inside of a building. In this way, sun blinds help to keep the radiant heat out in summer and let the sun in the building for free solar heat in winter.

This sun protection can be controlled fully automatically for each facade, with or without central control units or local bridging per zone. In this way, all screens can go up automatically when it rains and screens can be lowered automatically, when there is too much direct sunlight on a facade.

Personal adjustments are possible depending on the chosen solution offered by the different GIA Systems, by using push buttons sited locally per room or zone. The screens can also be operated wirelessly using a tablet or mobile device.

Various solutions are possible for controlling the screens, depending on the functional requirements of the client and/or consultant and the available budget. In this respect it is good to take the following points into consideration:

- Functionalities
- Controls
- Hardware
- Cabling
- Additional techniques

How clever are your screens?

		Basic	Advanced	Performance	Premium
Features	local controls per room	•	•	•	•
	local controls per facade per floor		•	•	•
	centralized control per floor				•
	central control per facade/wind direction		•	•	•
	window washer/blocker function		•	•	•
	automatic control with weather sensors		•	•	•
	clock		•	•	•
	Standard Failure Detection			•	•
Control	turn switch	•			
	push buttons		•	•	•
	touchscreen or PC with monitor		*	•	•
	smartphone / tablet (wireless)		*	*	•
	tablet		*	*	•
	PC		*	*	•
Hardware	DIN-rail housing with screw clamps			•	•
	GIA housing with connectors	•	•		
	combination DIN-rail + GIA housing		•	•	•
Cabling	central			•	•
	decentralised (behind false ceiling)	•	•		
	combination central + decentral		•	•	•
Expansion of additional techniques	lighting		•		•
	HVAC after regulation		•		•
	Building Management Systems (BMS)				•

* only for the central control commands.

GIA Screen control solutions

Basic

Simple solution with power distribution and local blinds control buttons.

Application

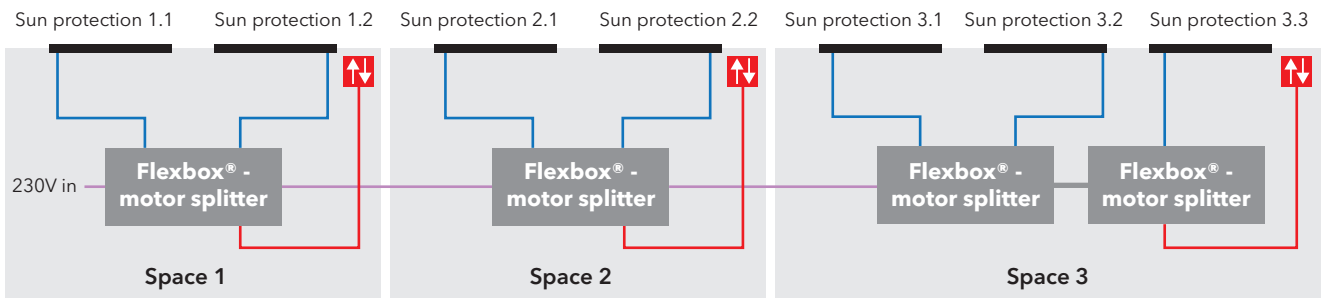
Controlling (up/down - open/close) shading / screens / curtains in interior environments of rooms with false ceilings.

Controls

Local turn key switch.

GIA system

Flexbox® motor splitter.



Advanced

Fully pluggable screen control, with local control per room. Combination with lighting control is possible. Efficient use of cabling. Connection to weather sensor is possible.

Application

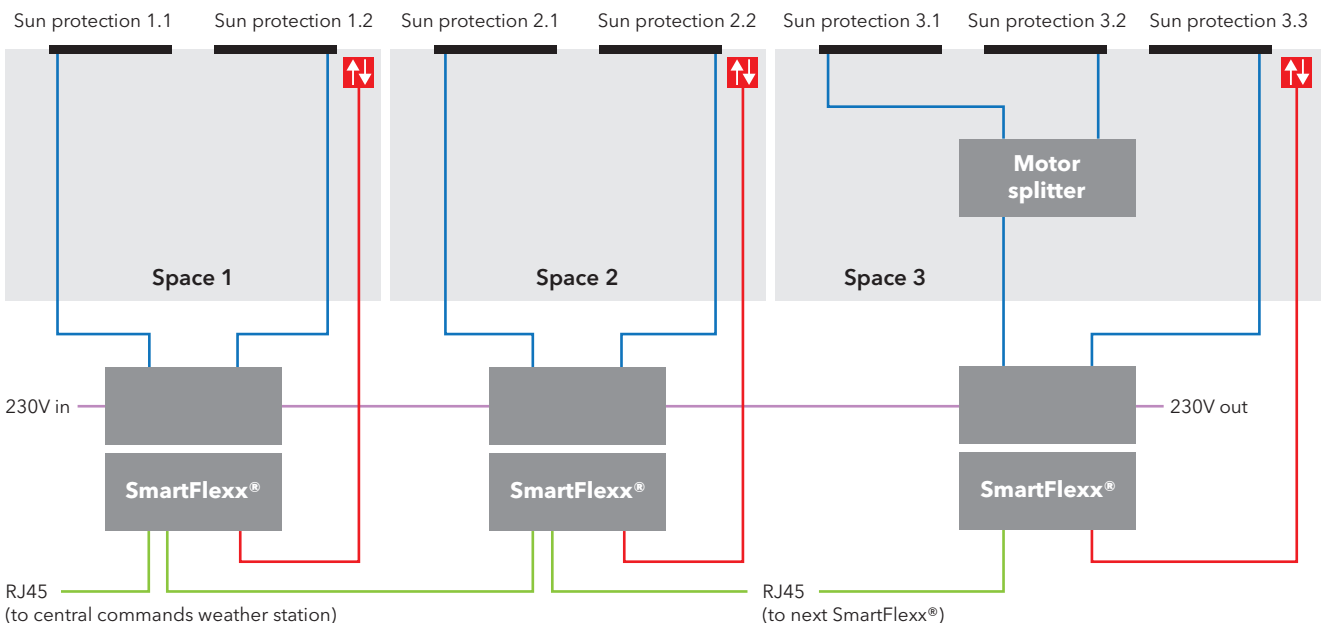
Controlling (up/down - open/close) shades / screens / curtains in interior and exterior environments of rooms with false ceilings.

Operation

Push buttons + weather sensors.

GIA system

Smartflexx®.



Performance

Easy-to-install solution for blinds control in buildings. With simple instructions for quick commissioning. Optional: can be linked to other Building Management Systems via Bacnet or Modbus.

Application

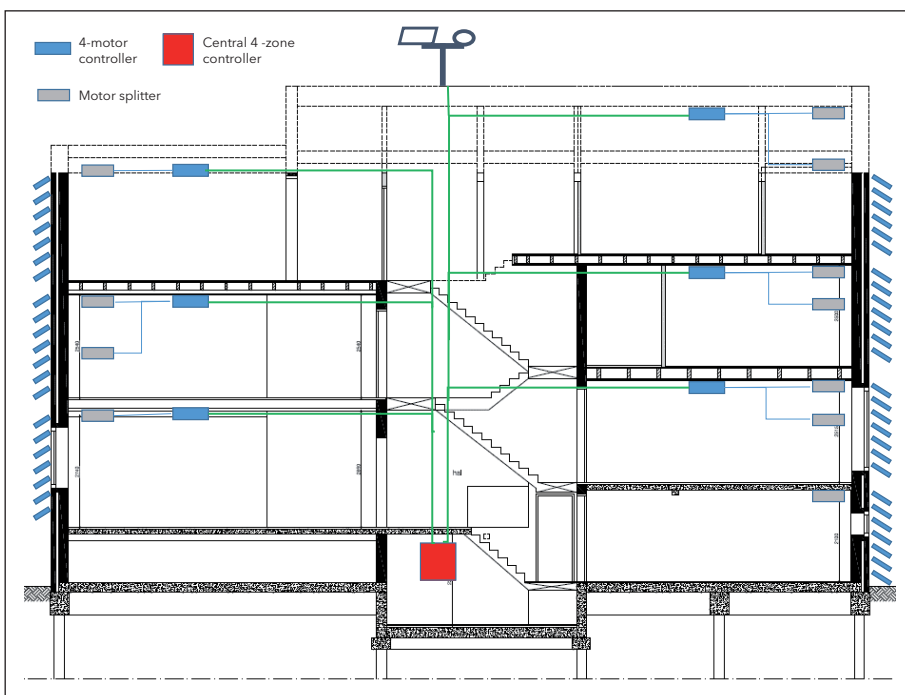
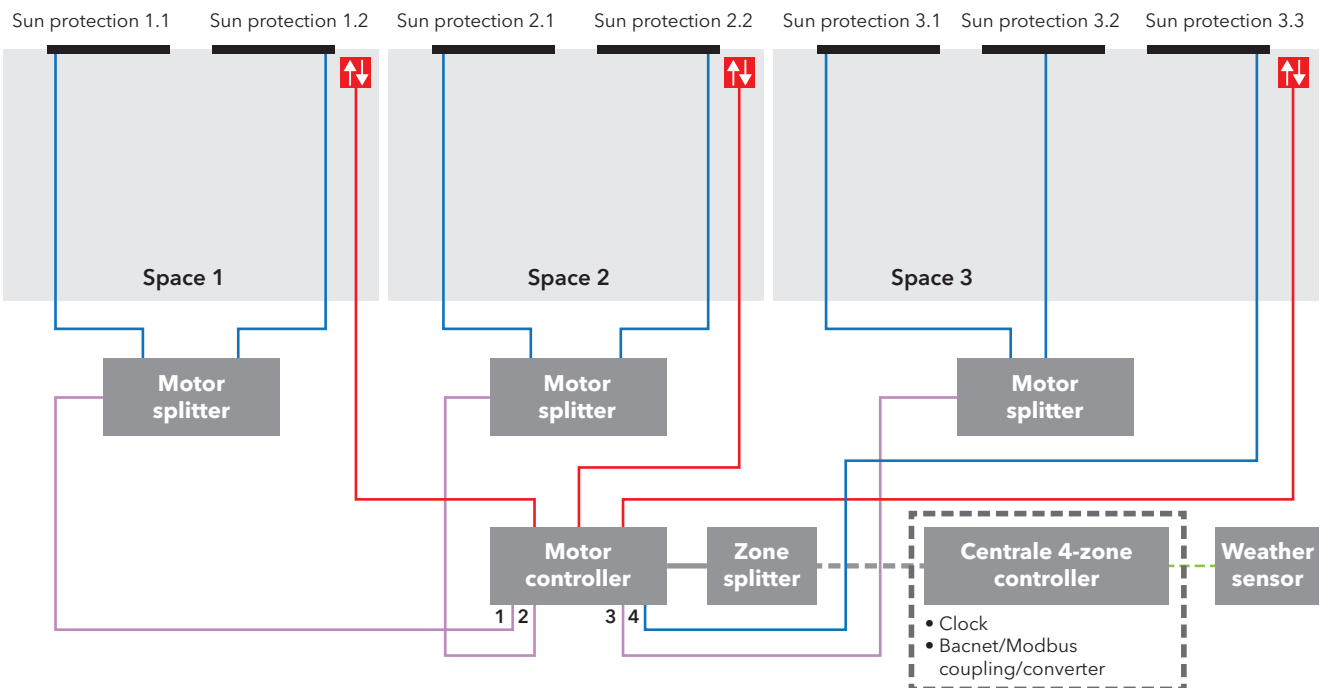
Controlling (up/down - open/close) shading / screens / curtains in indoor and outdoor areas of rooms both centrally and decentrally wired.

Operation

Push buttons + weather sensors + touch screen for central functions.

GIA system

Stand-alone Screen Control.



Special features of the "Performance" solution

- Standard Failure Detection - detects errors in the system.
- Modbus connection to link to BMS and enable visualisation.

Premium

This is the most complete and smart solution for screen controls. Most flexible, future-proof and low-maintenance option. Integration possible with subsystems, such as lighting, energy monitoring, HVAC control and other Building Management System via Bacnet or Modbus protocol.

Application

Controlling (up/down - open/close) shading / screens / curtains in indoor and outdoor environments of rooms with or without false ceilings.

Operation

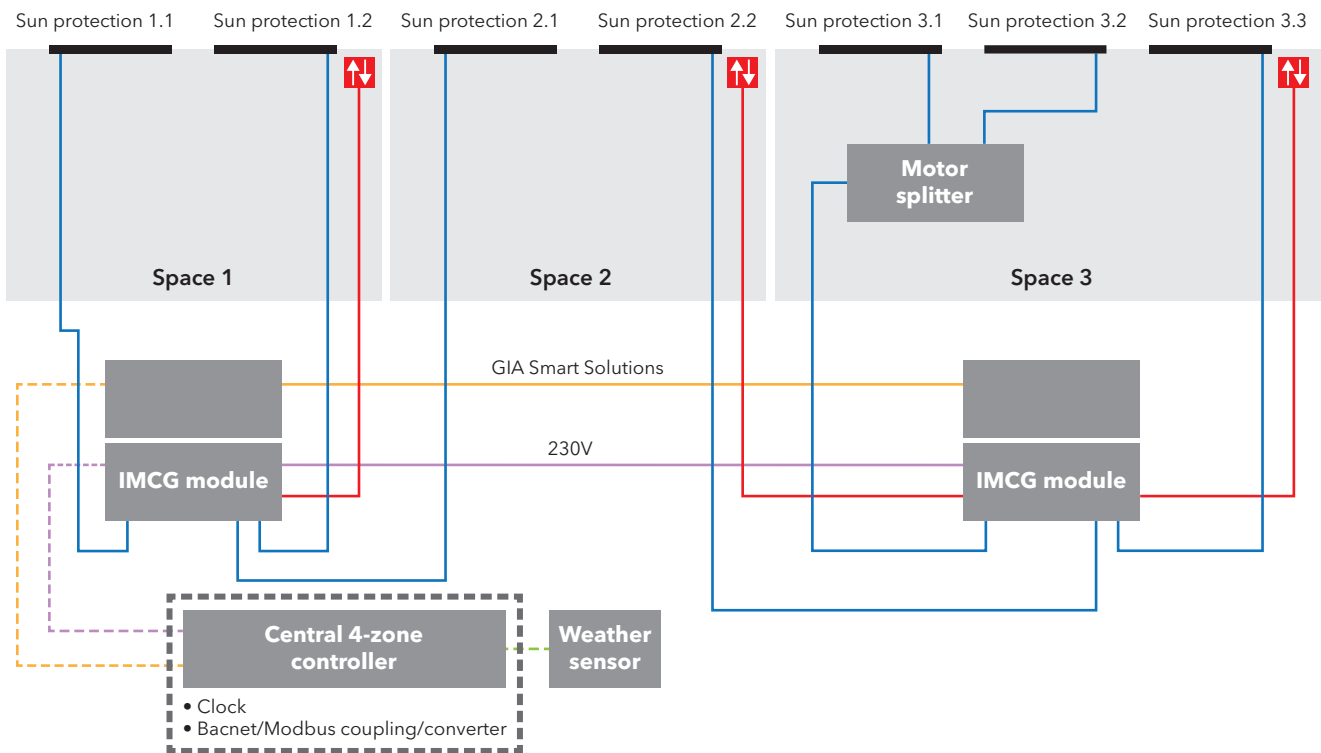
Push buttons + weather sensors + touch screen + PC + smartphone + tablet.

GIA system

GIA Smart Bus system.

Special features

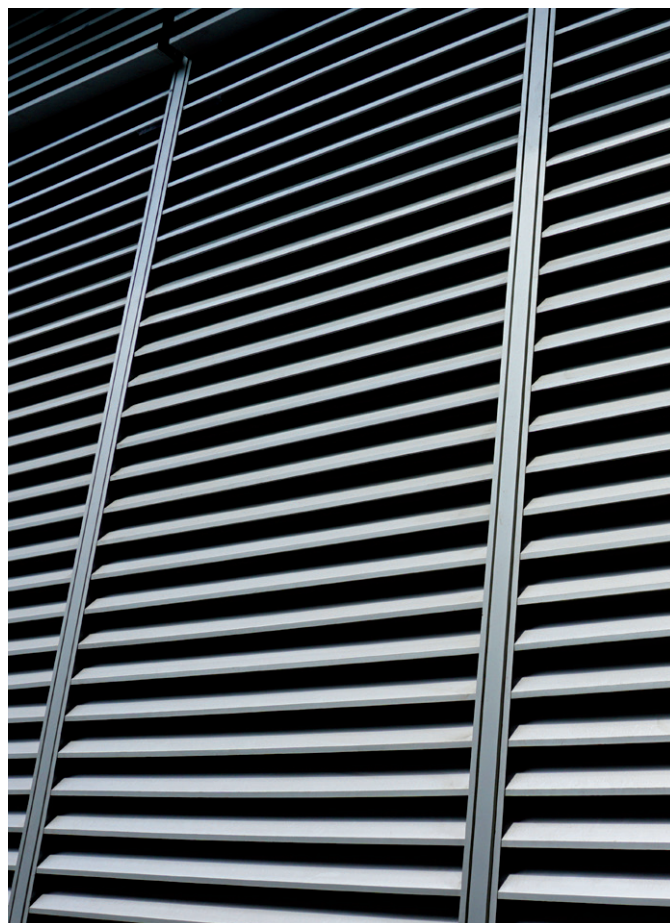
Slat control with tilt, depending on low/high sun position.



GIA weather sensors

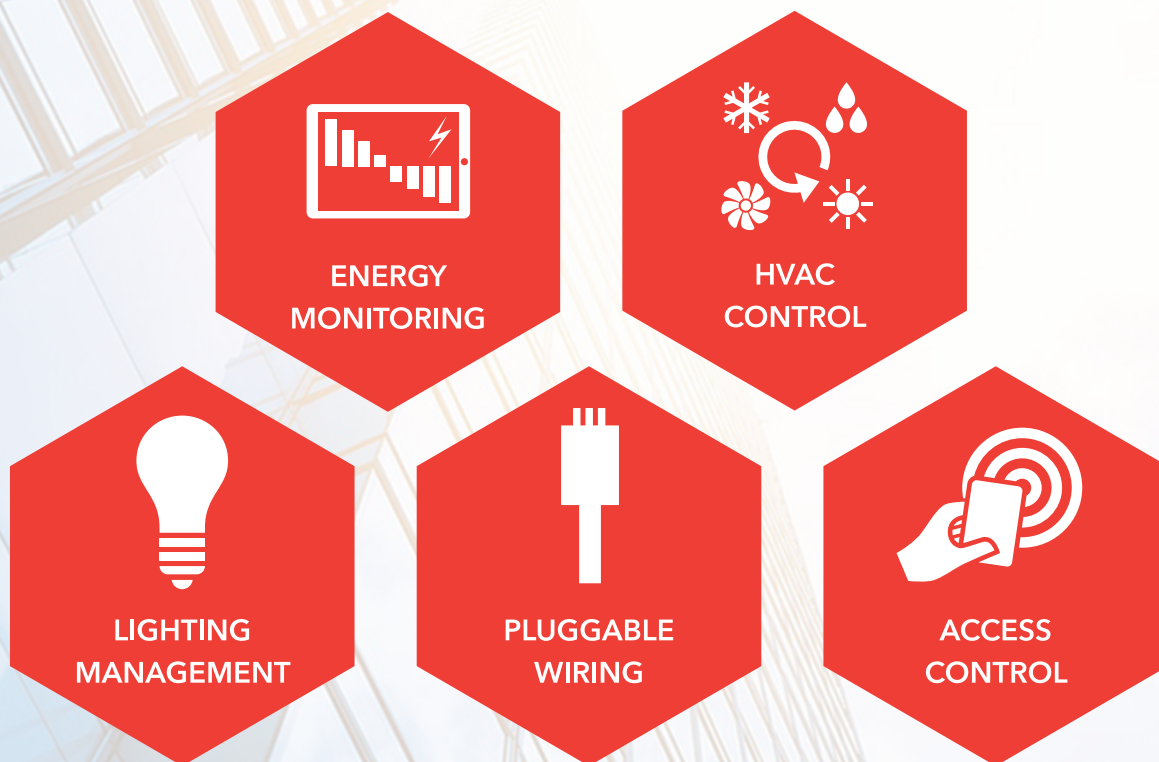
The different types of screen control solutions include various accessories, that complete the system. For example weather sensors.

The weather sensors grouped in a weather station consists of a wind meter, a rain sensor and one or more light measuring cells. The rain sensor has a heating element. These elements are connected to the necessary control modules in the distribution box.



		Basic	Advanced	Performance	Premium
Weather station	Light sensor IP44		•	•	•
	Wind sensor		•	•	•
	Rain sensor, heated		•	•	•
	Wall mount multifunctional weather sensors		•	•	•
	Outdoor temperature sensor IP66		•	•	
	Multifunctional weather sensor		•	•	•
	Multifunctional weather sensor incl. GPS module			•	•

Also take a look at other smart solutions by GIA Systems:



GIA Systems. Efficient. Always. Everywhere.



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