



Automation Control

Horiso's control options for Specialty Venetian Blinds can be set to suit building or individual user requirements at various levels of sophistication and comfort. Control options can be installed either by hardwired or wireless control, depending on the most suitable option for each project. From basic switch or remote control, to time scheduled automation, through to integration with building management systems, multiple options with scalability are available.

Additional automation features can be included, such as: linked blind control, individual user programming, and weather sensor-based automation for temperature and wind conditions.

Intelligent automation with predictive sun tracking can be achieved using advanced building environmental modelling which assesses and implements programmed automation, based on a building's geographical location, its shadowing by surrounding buildings, and its solar path positioning.

Automation control options include:

- Switch/remote/WIFI tablet and device control
- Time scheduled automation response settings
- Temperature and wind control
- BMS and A/V integration
- Advanced building environmental modeling
- Sun tracking

Standard Control



Standard Switch and Remote control

Hardwired or wireless control for up and down plus tilting functionality.

Standard Automation



Time scheduled response settings

Responsive base control deploys, tilts and retracts at scheduled times. Flexible scheduling set daily, weekly, monthly or yearly.



Sensors



Strategically placed sensors allow the system to react to weather conditions by automatically deploying retracting or tilting. Sensors monitor brightness/illuminance, wind, rain and temperature, set to programmed threshold values.



Group Control

Linked blinds can be controlled in unison for zonal control.

Common Automation Features



WiFi operated tablet and device control

Hardwired or wireless control for up and down movement plus tilting functionality.



Integrated Software

Flexible scheduling, Access Control – User and Group control, history and logging for analytics, system status and overrides, visual interaction with custom floorplans and dashboard views available.



BMS and A/V Integration

Systems communicate directly with BMS/AV systems. Each device is treated as a separate node in the network and given its own unique address.

- Horiso automation systems are BACnet native devices so they integrate and communicate directly with BMS systems for improved reliability and resiliency

Advanced Intelligent Automation

Advanced intelligent automation adds an additional level of sophistication to standard automation with predictive automated control. Louvre systems operate pro-actively with advanced building environmental modelling algorithms.



Advanced Building Environmental Modeling

Detailed modelling on a building's geographical coordinates, solar path trajectory, overshadowing, reflected glare and sun-blocking from surrounding buildings is assessed for sun tracking control and placement of sensors.

- Strategically placed sensors allow the system to determine overcast, bright overcast, and clear sky conditions
- Detailed modelling for complex shadows in unique building layouts



Sun Tracking

Automated proactive sun tracking tilts slats predictively at various angles throughout the day to control glare and solar heat gain. The sun tracking is programmed to the building's advanced environmental modelling solar path algorithms.

- Sun angle of incidence algorithm takes into account:

- Geographic location
- Fenestration orientations
- Daylight harvesting
- Control of solar heat gain

horiso[®]

E: info@horiso.com.au | T: +612 8755 4500

horiso.com.au