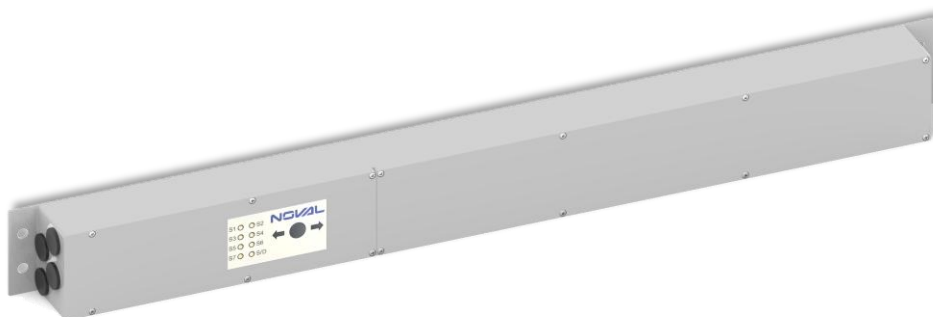


NEXO

All-in-one control unit
for bioclimatic pergolas



OVERVIEW

→ **All-in-one control unit:**

1 or 2 motors

White or RGB LED lighting

Up to 4 screens (optional)

The NEXO control unit brings together everything you need for a bioclimatic pergola.

→ **Powered by a 300 W power supply.**

Control all your equipment without power limitations.

→ **Sized for concealed integration into the pergola: 540 × 54 × 40 mm**

Fits within the pergola structure.

→ **Compatible with 99% of electric actuator brands and models.**

Our firmware, high-power supply and experience since 2012 enable us to control any motor, with or without an encoder, individually or in synchronised operation.

→ **Simplified commissioning and maintenance without opening the enclosure.**

Intelligent firmware, pre-wiring, an accessible front-panel keypad and a mobile app make life easier for manufacturers and installers.

→ **Uncompromising connectivity: direct smartphone connection + Somfy RTS compatibility.**

iNOV dual technology enables direct smartphone control, configuration, diagnostics and updates without a smart home hub, plus real-time feedback on the remote control.

→ **A control unit that grows with your pergola.**

NOVAL remote control with up to 7 channels + an expansion module to add LED lighting and wired screens without replacing the control unit.

TECHNICAL SPECIFICATIONS

IDENTIFICATION	
Reference	NL4540-2M1L — 2 actuators + 1 LED lighting output (2M1L mode)
POWER SUPPLY	
Power supply	230–240 V AC input / 24 V DC output — power supply built into the enclosure
Available power	300 W / 10 A maximum — built-in power supply up to 300 W; optional additional 240 W power supply dedicated to LEDs
OUTPUTS	
Motor outputs	2 × actuators, 150 W max., 8 A (M1, M2) — any motor type, with or without an encoder, individual or synchronised control
Lighting output	1 × RGB or white LED strip — ≥ 192 W (≈ 92 W min. in white mode)
Blind/screen outputs	Up to 4 wired ON/OFF screens via optional Screens board
Multichannel	Up to 7 channels: M1, M2, LED, screens / extensions, sensors and other inputs
RADIO AND CONNECTIVITY — INOV TECHNOLOGY	
Radio protocols	Bidirectional iNOV radio + Somfy® RTS
Control devices	NOVAL remote controls or RTS-compatible remote control
Compatibility	Somfy TaHoma® hub and RTS transmitters
Mobile app	Direct connection without a smart home hub: control, configuration, diagnostics, feedback and firmware updates — separate user / installer access levels
INPUTS AND SENSORS	
Supported sensors	Rain, wind, temperature, sunlight
Dry contacts	2 × dry-contact control inputs
INTERFACE AND COMMISSIONING	
Built-in keypad	3 buttons — 8 LEDs including 1 RGB LED, accessible without opening the enclosure
NOVAL remote control	4 buttons (open / stop / close / channel selection), RGB feedback LED, AA batteries
Configuration	Automatic stroke learning and actuator type recognition
ENCLOSURE	
Dimensions	540 × 54 × 40 mm (L × W × H)
Material	Plastic
IP rating	IP44
User interface access	Front-panel keypad
Connections	Pre-wired as standard with Wago-type connectors + dedicated LED connector — custom wiring available
Extension	External EXT module planned: additional LED lighting and screens
Operating temperature	–20 to +60 °C

Photo credits: Solisysteme® — Bioclimatic Pergola model



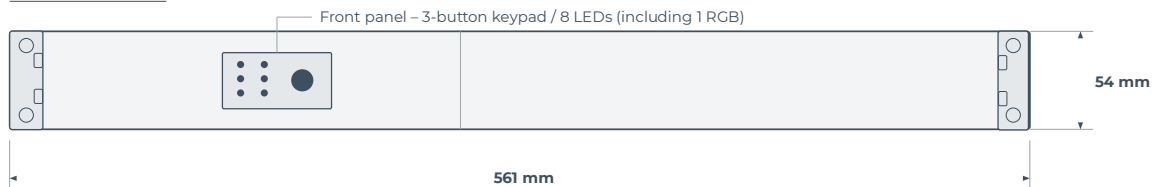
INTEGRATION INTO YOUR PERGOLA



Can be installed inside a pergola post (A) or inside the pergola gutter (B).

DIMENSIONAL DRAWING

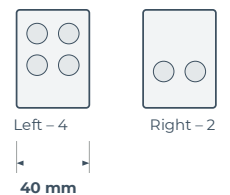
TOP VIEW



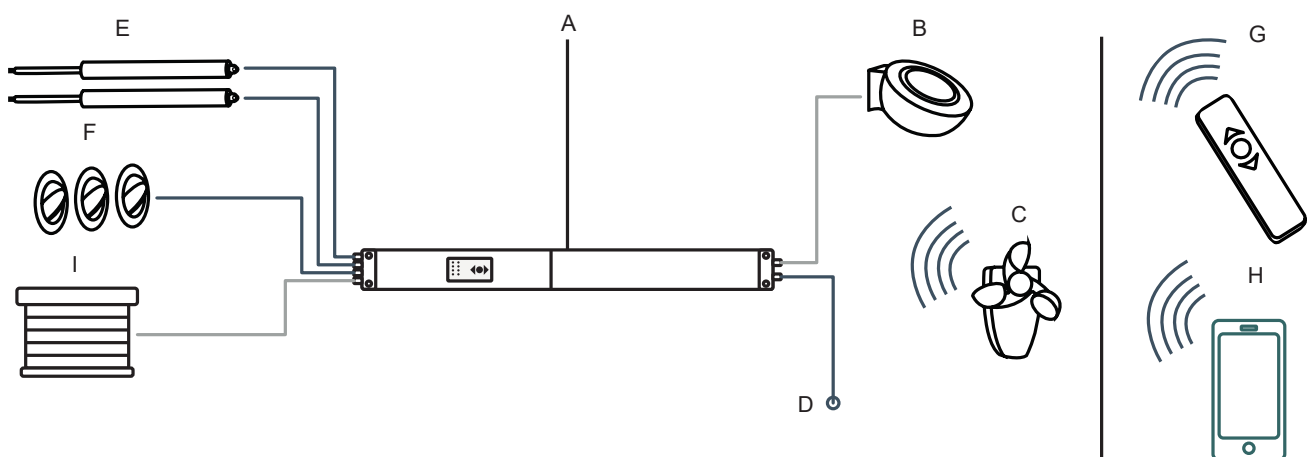
SIDE VIEW



END VIEWS



INSTALLATION EXAMPLE



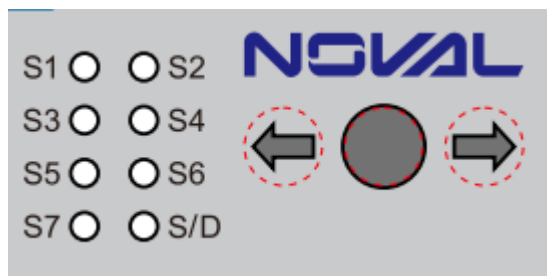
- A NEXO unit with internal power supply, 300 W max.
- B Wired rain sensor (optional)
- C RTS wind sensor (optional)
- D 230–240 V AC mains, 50/60 Hz
- E Actuator outputs — 2 × 150 W max.

- F LED lighting output — RGB or white
- G NOVAL or RTS radio remote control (optional)
- H Smartphone — BLE app, nosmart home hub
- I Screens board — up to 4 wired screens (optional)

INNOVATIVE CONTROL & CONFIGURATION

NOVAL CONTROL INTERFACES

BUILT-IN KEYPAD



3 buttons and 8 indicator LEDs, including one RGB LED. Allows full equipment configuration and status feedback without opening the enclosure.

NOVAL REMOTE CONTROL



4-button radio remote control: open, stop, close and channel selection to control multiple devices.
+ A dedicated RGB LED provides product status feedback.
Powered by AA batteries.

THE BEST IN CONNECTIVITY

iNOV — The new dual-technology radio by NOVAL

- Smartphone connection without a smart home hub.
- Real-time feedback on remote control + smartphone.
- Compatible with TaHoma® hubs and SOMFY transmitters*

SOMFY® ECOSYSTEM	DIRECT CONNECTION
One transmitter to control everything. *Compatible with TaHoma® hubs, RTS and RTS + IO remote controls and sensors. (Not compatible with IO-only devices)	Bidirectional iNOV radio without a smart home hub. Control, feedback, configuration, diagnostics and firmware updates directly from your smartphone. Separate user / installer access levels.
	

MAINTENANCE

Diagnostics, configuration and updates at your fingertips.

Designed to reduce site visits, the NOVAL remote control displays installation status through its dedicated RGB LED, while the mobile app connects directly to the control unit via bidirectional iNOV radio: real-time feedback, diagnostics, firmware updates and separate user / installer access levels.

More accessible maintenance.

Pre-wired units can be connected without opening the enclosure. The front-panel keypad also enables direct diagnostics and configuration of the connected equipment.