

NV Solo®

Indoor climate based on natural ventilation

Indoor climate solutions

NV Solo® is our simple yet cost-effective control system for a single zone, where the automatic opening and closing of windows is based solely on indoor temperature



Features

NV Solo® controls the automatic opening and closing of windows in an individual room, based upon internal and external temperatures, to achieve the desired indoor climate.

The user panel with integrated temperature sensor displays the control settings, in addition to the current indoor and outdoor temperatures. The user panel can also manually operate the windows and is used for setting the automatic mode. In the automatic mode the adjustment of when the windows are to open and close can be made.

The safety feature in NV Solo® ensures that the windows close in case of rain, strong wind and/or low outdoor temperature. After manual operation NV Solo® returns to automatic mode after 30 minutes.

The battery powered user panel communicates via wireless technology with the weather station. This

makes NV Solo® easy to install and suitable for being added to existing buildings, since no cables are needed for the user panel. The signals from NV Solo® are via a MotorController to the actuator mounted in or at the window frame. The choice of actuator and MotorController depends on the window dimensions. It is possible to add NV Solo® to existing comfort or Heat & Smoke ventilation systems.

Simple to install – even when refurbishing

NV Solo® features a battery-powered control panel that uses a wireless link to communicate with a weather station installed on the roof of the building. That makes NV Solo® ideal for refurbishments because the control panel does not have to be connected to the weather station using cables.

Technical data

User panel

User panel with integrated temperature sensor and display for weather data, alarm information and operation mode, in addition to buttons for manual use and setting of automatic mode.

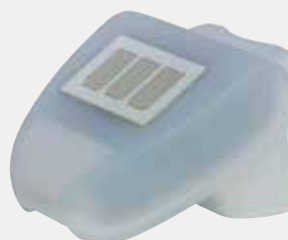
Dimensions	: 103 x 98 x 28 mm (W x H x D)
Colour	: White (RAL 9016)
Power	: 2 x 1.5V (2 batteries AA/LR6 – included) or 2 x 1.2V (2 batteries AA/LR6)
Temperature	: -10°C - +50°C



Weather station

Weather station with sensors for outdoor temperature, wind speed and rain, and output signal for comfort or Heat & Smoke ventilation systems. Delivered with mounting bracket for pole or wall mounting.

Dimensions	: 96 x 77 x 118 mm (W x H x D)
Colour	: White
Power	: 13-40 VDC / 12-30 VAC
Output signal	: Open / close – potential free
Temperature	: -30°C - +60°C



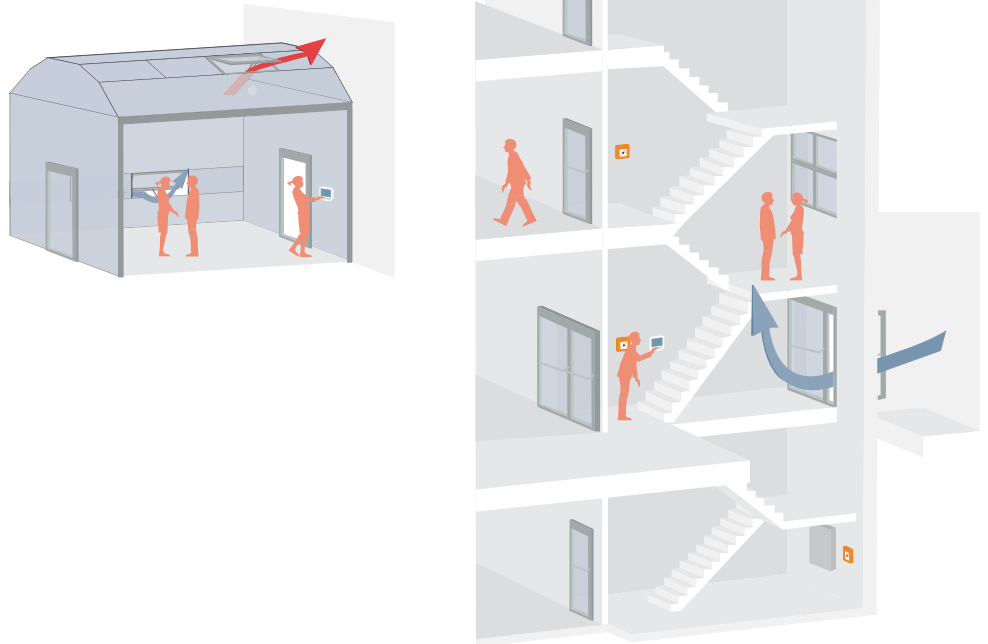
Where to use

NV Solo® is a versatile controller for providing natural ventilation in the many rooms that require an improved indoor climate by the use of motorised windows.

NV Solo® can also be used in conjunction with other safety systems, such as smoke ventilation for staircases, and will provide the additional comfort ventilation for the space. The Heat & Smoke function has first priority.

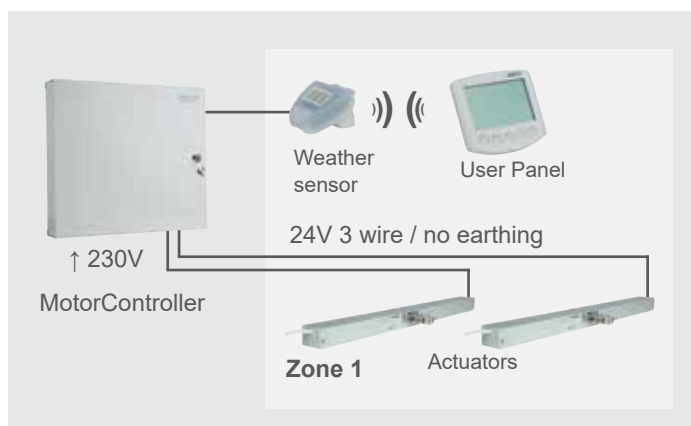
Maximum distance between user panel and weather station:

- in open air up to 200m
- in buildings up to 2 floors with steel-reinforced concrete (special conditions can apply)

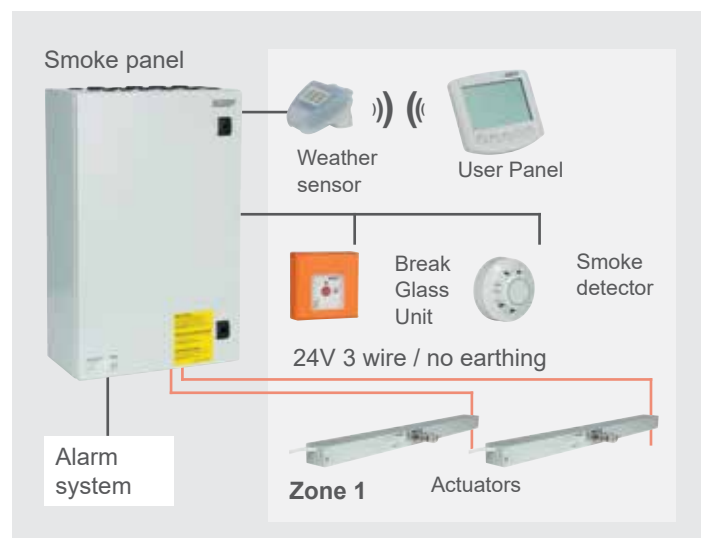


Sample connections

For control of natural ventilation, with MotorController and actuators in the windows:



As comfort ventilation control in connection with a Heat & Smoke Ventilation system:



WindowMaster aspires to protect people and the environment by creating a healthy and safe indoor climate, automatically ventilating spaces with fresh air through facade and roof windows in commercial buildings. We offer the construction industry foresighted, flexible and intelligent window actuators and control systems for natural ventilation, mixed mode ventilation and smoke ventilation – of the highest quality.

WindowMaster employs around 135 highly experienced cleantech specialists in Denmark, Norway, Germany, United Kingdom, Ireland, Switzerland and United States of America. In addition, we work with a vast network of certified partners. With our extensive expertise built up since 1990, WindowMaster is ready to help the construction industry meet its green obligations and achieve their architectural and technical ambitions.

Based on indoor and outdoor temperature measurements, NV Solo® automatically opens and closes windows in an individual room and ensures the desired indoor climate is achieved.

windowmaster.com

**WINDOW
Master®**
Fresh Air. Fresh People.