PRELIMINARY

Building Sensor

WIND MONITOR ST thermal wind sensing for smart sun protection control.



(AI Image)

- Wind Speed
- Brightness
- Twilight
- Color Temperature (K) Outdoor Lighting

Building Automation

Sun Protection Control

Blinds | Awnings | Roller Shutters

THE WORLD OF WEATHER DATA

Measure and alert!

Wind Monitor ST for sun protection control.

The WIND MONITOR ST enables simple and effective control for reliable sun protection systems in modern building automation. It delivers maintenance-efficient and highly integrated weather data acquisition, specifically designed for façade and shading applications. Wind speed is measured using a thermal sensing principle with two sensors, enabling precise detection without any moving parts. This reduces maintenance requirements while ensuring long-term stability and operational reliability.

Developed for building automation and sun shading control, the WIND MONITOR ST features a minimalist, architectural design in matte white. This allows seamless integration into demanding façade concepts without visual disruption. The sensor is ideally suited for automated control of blinds, awnings, and roller shutters, as well as integration into higher-level building management systems.

Standard communication protocols such as ASCII and Modbus RTU (RS485) are supported, with optional KNX integration, ensuring flexible system compatibility. Integrated LEDs (green/red), visible through the translucent housing, provide status indication and can be configured or deactivated depending on application requirements.

Interfaces

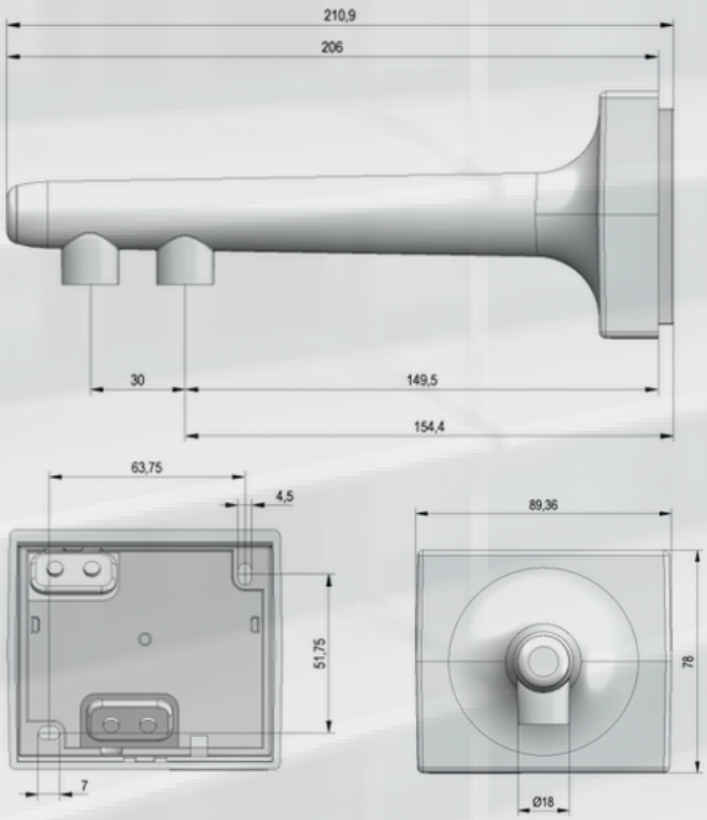
- ASCII
- Modbus RTU (RS485)
- Optional KNX

Special Features

- Low-maintenance,
- Thermal measurement method
- Very low power consumption (< 1 W)
- Discreet design for facade integration
- Color temperature output in Kelvin for daylight-adaptive lighting control

Measurement parameters

- Wind speed: Thermal measurement method using a PID-controlled, heated sensor. Measurement accuracy: ±1 m/s or ±5%.
- Brightness: Silicon-based light sensor for measuring illuminance and spectral components.
- Color Temperature (K): The sensor also calculates the correlated color temperature of outdoor lighting brightness and transmits the value via Modbus and Thies Telegram.
- Twilight: Detection of light conditions in the transition between day and night.
- Power consumption is less than 1 watt, enabling highly energy-efficient operation, the operating voltage is 18–30 VDC.



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