

# Weather Center



Precise weather data - the key to customized control.  
Weather station CLIMA Sensor for  
building management system (BMS)



**Wind** with proven Thies CLIMA ultrasonic transducer technology



**Precipitation** with double safety: Ceramic contact sensor & precipitation radar for status, intensity, quantity, type (SYNOP codes)



**Global radiation | Brightness**

4 sensors for hemispheric brightness and twilight.  
Global radiation, calculated from brightness and position of the sun



**Temperature** most accurate measurement due to ventilated weather protection



**Air pressure** absolute & relative



**Humidity** dew point, relative & absolute humidity



**Magnetic compass | GPS** longitude, latitude and altitude, time, date, position of the sun and north alignment



**Modbus** ASCII, 0...10V



## STRESS-FREE CLIMA Sensor-controlled

By providing precise weather data, the CLIMA sensor enables automated control of lighting, ventilation, heating and cooling, both for energy optimization and for activating protective mechanisms through immediate alerts to janitors or building managers, especially in the event of potentially dangerous precipitation events.

THE WORLD OF WEATHER DATA





# Measure, control and alarm!

Weather station CLIMA Sensor for building management systems

## Order number: 4.92xx.xo.00x Clima Sensor

The CLIMA Sensor is a compact weather station for recording and processing all weather data. It provides precise information on all relevant environmental data. Thanks to RS-485 with Modbus-RTU or ASCII and 0-10V analog outputs, integration is effortless. Our custom-fit mounting solutions allow it to be mounted on the outside of buildings, preferably on roofs and façades, on poles or on walls.

## Optimum control thanks to precise weather data ...

- Precise precipitation detection: Precise determination of the precipitation status (including plausibility check to avoid false alarms), intensity, quantity and type of precipitation enables targeted actions: from intelligent closing of roof and window elements to triggering safety-relevant precipitation warnings for the purpose of blocking or evacuation, etc.
- The CLIMA sensor records brightness values from all points of the compass and provides GPS information on the position of the sun, enabling optimum shading control.
- State-of-the-art technology, such as ultrasonic transducers for wind measurement and a radar and ceramic sensor technology for precipitation detection, guarantee precise data, maintenance-free, without wear or faults.
- Operational reliability under extreme conditions from -50° ... 80°C: The optionally integrated ultrasonic sensor heating ensures reliable wind measurement even in icy temperatures down to -50°C.
- The housing, made of extremely hard-wearing LEXAN(R), can withstand any weather, is impact-resistant and UV-resistant. The weather station has a slim, functional design.
- Seamless integration thanks to Modbus RTU (alternatively ASCII, 0...10V output signals). The CLIMA sensor can be easily integrated into existing systems.

The reliability, precision and versatility of the CLIMA sensor make it the best-in-class weather control point for building management systems. Contact us for more information or a consultation.

For more information,  
please contact us:

Phone: +49.551 790010  
info@thiesclima.com

More details >

