

# Weather Station

WSC Advanced 4.9061.00.00x





WSC Advanced is a compact, full-featured weather station designed for building management systems, agriculture, traffic control and smart city applications. The instrument provides precise directly measured meteorological parameters complemented with weather forecast insights - a unique feature in its class! The WSC Advanced combines advanced features with a user-friendly design, making it a future-proof solution for multiple applications.





- Wind speed -
- Wind direction -
- 3-fold brightness -
  - Twilight -
- Global radiation -
- Precipitation status -
- Precipitation intensity -
  - Air temperature -
- Absolute air pressure -
- Relative air pressure -
- Relative air humidity -
- Absolute air humidity -
- Dew point temperature -
- Internal housing temperature -
  - Time / date -
  - Geostationary data/GPS -
- Sun position (elevation / azimuth)-
- 24h Forecast weather data insights -

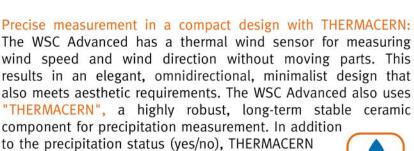
... available through a wide range of interfaces



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## Connectivity, wired and wireless:

WSC Advanced is one of the most communicative weather stations on the market. It offers a comprehensive selection of interfaces, RS-485, Modbus, WLAN, LoRaWan, MQTT, Thies Cloud & Cumulus APP.

can also be used to measure the intensity of precipitation, another unique feature in this device class.

### Protocol MQTT, loT-networks and more:

The communication strength is also reflected in the supported protocols. The station supports the common ASCII and MODBUS protocols via the serial interface. The MQTT standard is used for WLAN connections and opens up access to the IoT - the Internet of Things. MQTT also ensures an uncomplicated connection to the free Thies CLIMA Cloud. The measured values are continuously recorded and can be conveniently analyzed, processed and displayed via any web browser or the Cumulus app on mobile devices, regardless of location. Individual alarms can also be set up, based on threshold values.

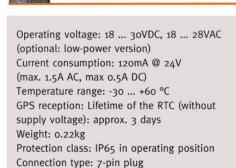
The configuration of the MQTT settings enables connection to any MQTT server. The configuration of the MQTT settings enables connection to any MQTT server.

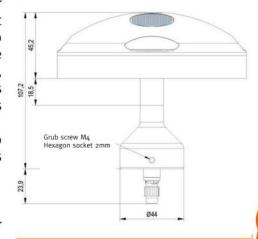
### Data trending for smart controlling:

With a connection to the Thies Cloud via WLAN, the sensor enables access to reliable forecast data for the next 24 hours, e.g. wind speed, wind direction, air temperature and more.

The forecast data received can be retrieved via the MODBUS protocol and used for intelligent control concepts, e.g. when using heat pumps and for low-energy houses.

Test the possibilities of the Thies Cumulus Cloud, free of charge: www.thiesclima.com/en/Thies-Cumulus/





MQTT (Message Queuing Telemetry Transport). The lightweight, reliable protocol enables efficient publish/subscribe mechanisms for IoT connectivity. By using MQTT, device-to-device communication becomes seamless, ensuring high-performance data transmission and integration into IoT networks.



**MEETINSTRUMENTATIE**