

PRODUCT DATA SHEET

CO₂, humidity and air quality sensors

VSHC, VSHW, VSPM



CO₂



HUMIDITY



AIR QUALITY

The VSHC sensor is designed to measure the concentration of carbon dioxide and humidity in rooms. When the set value of carbon dioxide concentration and humidity is exceeded, the capacity of the air handling unit is automatically increased.

The VSHW sensor is designed to measure the humidity in rooms. When the set humidity value is exceeded, the air handling unit's capacity is automatically increased.

The VSPM air quality sensor is used to measure carbon dioxide content and the amount of PM1, PM2.5, PM4 and PM10 particles. Additionally, it measures relative humidity and room temperature.

The devices can operate in the temperature range of 0°C-55°C.



VSHC
VSHW

VSPM

COMPATIBILITY

HRU type	Intended use
ARIUS VAH305	•
ARIUS VAH405	•
ARIUS VAH505	•
ARIUS VAH605	•
AUROS VER305	•
AUROS VER405	•
AUROS VER505	•
AUROS VER605	•
AVIRA VAVP305	•
AVIRA VAVP405	•
AVIRA VAVP505	•
AVIRA VAVP605	•
AQUILA VARS305	•
AQUILA VARP305	•

VSHC, VSHW

HUMIDITY MEASUREMENT

Humidity measurement range	0-100% (Note: Humidity measurement is only possible at temperatures between 0°C-55°C)
Humidity reading accuracy	±3%

VSHC

CARBON DIOXIDE MEASUREMENT

Carbon dioxide concentration measurement range	400 – 2000 ppm (Note: carbon dioxide concentration measurement is possible in the temperature range of 0°C-50°C)
Carbon dioxide reading accuracy	±3% + ±50 ppm (Note: the CO ₂ sensor is equipped with an automatic calibration algorithm)

Internet module

VLAN

VLAN is an integrated network communication system that uses the C14 communication protocol and a special Internet module. The module allows monitoring and remote control of the air handling unit's settings.

VLAN module (iNEXT) enables:

- remote communication via a web browser and via a mobile application with all Awenta PRO air handling units
- reading of current control panel parameters (e.g.: reading from temperature sensors)
- capacity control of the air handling unit (speed change, ventilation mode)
- programming weekly operating schedule
- remote access to all user settings
- remote access to service settings for the installer
- bypass flap control

To ensure communication with the Internet, it is necessary to connect the module to an access device with an Ethernet connection – such as a router or 3G/4G/5G mobile network modem.



COMPATIBILITY

HRU type	Access through the App (Android, iOS)	Access through the webpage
ARIUS VAH305-605	•	•
AUROS VER305-605	•	•
AVIRA VAVP305-605	•	•
AQUILA VARS305	•	•
AQUILA VARP305	•	•