



Climate change is the greatest challenge of our time. The burning of fossil fuels and industrialization releases NO_x (nitrogen oxides) and is one of the main causes of increased greenhouse effect and global warming.

In turn, NO_x helps form ground-level ozone (O₃) which is a harmful air pollutant and a main ingredient in smog. These toxic gases impact human, animal, plant respiration, and contribute to forming acid rain that are harming sensitive ecosystems such as lakes and forests.

Aerys G tracks levels of O₃, NO (nitric oxide), and NO₂ (nitrogen dioxide) and raises awareness about the quality of the air we breathe.

Because it is easy to install, maintain, and use, Aerys helps support urban planning, green infrastructure, and sustainable development within cities.

Dimensions

640 x 220 x 220 mm

Weight

10 kg

IK rating

IK08

Materials

fiberglass, ABS, hot-dip zinc coated steel (EN10346), galvanized low carbon steel (ISO 2081)

Operating temperature

-20°C to 50°C

Operating Humidity

(RH) 0-100%

Environment

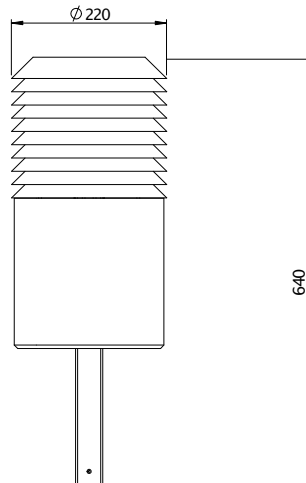
C4/C5* (*on request)

IP rating

IP45

Noise level

<30 dBA



Gas sensors

Sensors type

Electrochemical sensors with low gas concentration detection

Monitored gases

Nitric oxide (NO)
Nitrogen dioxide (NO₂)
Ground-level ozone (O₃)

Zero drift (ppb equivalent change/year in lab air)

0 to 50 for NO, 0 to 20 for NO₂ and O₃

Max sensitivity drift (% change/year in lab air)

0 to -20 for NO, -20 to -40 for NO₂ and O₃

Calibration frequency

12 months from the installation date

Operating life

24 months or more from the installation date

Unit of measurement

ppb and ppm

Stabilization time when first plugged in

12 hours for NO, 2 hours for NO₂ and O₃

Li-ion battery pack

Total energy

320 Wh

Rated voltage

11.1 V

Max. voltage

12.6 V

Peak power

400 W

Continuous power

300 W

Over current protection

40 A

Over discharge protection

<3 V per cell

Short circuit protection

<100 μ s

Cell balancing

Yes

State of charge indicator

Yes

Environmental sensors

Atmospheric pressure sensor

700 ~ 1100 hPa

Humidity sensor

0 ~ 99 %RH ± 2.0 %RH (20~80%RH)

Temperature sensor

-40°C to 85°C ± 2 °C

Internal server communication system

GSM band

850/900/1800/1900 MHz

Transmitting power

Class 4 (2W) at 850/900MHz, Class 1 (1W) at 1800/1900MHz

GPS type

22 tracking (66 acquisition), GPS L1 C/A code

Accuracy

GPS L1 C/A code