Air Quality Transmitter AQT560

Product Spotlight

VAISALA

Connect communities to the environment for improved health and safety for all

A real-time, 360-degree view of air quality helps community leaders take action to protect public health, avoid pollution hot spots, optimize infrastructures, and plan more confidently and strategically. Vaisala Air Quality Transmitter AQT560 is the ideal monitoring and measurement sensor for these and other purposes — providing the accuracy and reliability you need with easy deployment and integration, all in a compact package.

Key benefits

Key air quality monitoring applications

- City-wide supplementary networks for Environmental Protection Agencies
- Wildfire smoke, combustion pollution and street dust
- Construction and other fixed-period projects
- Traffic pollution monitoring
- Fencelines near dust-emitting industrial sites and more

Trust your air quality data to make informed decisions, develop policies, and take necessary actions to protect public health and the environment.

Rely on unprecedented accuracy and performance to take the guesswork out of monitoring the most common particulate and gas air pollutants.

Confidently network multiple AQT560s across a large area thanks to low sensor-to-sensor variation.

Get up and running quickly with plug-and-play connectivity and flexible integration options.

Depend on the only global company with end-to-end instruments and intelligence: air quality sensors, network connectivity systems, data storage and air quality forecasting. You're covered if questions arise with 24/7 global support.

Why Vaisala?

As the global leader in weather and environmental measurements, Vaisala empowers businesses and community leaders to build resilience to climate change and extreme weather events. Our 85+ years of expertise is grounded in science, innovation and our unwavering commitment to constantly evolving.

We boldly demonstrate that a culture of resilience and a connection to nature can create new ways of smarter, resilient living. We are champions for smarter, safer and more sustainable urban communities.

AQT560 makes air pollution monitoring easier and more cost-effective than ever. This generational leap in air quality detection gives you a higher-resolution picture of air quality conditions with more precise data points to make your measurements more accurate.

The air quality sensor has been extensively tested to perform in a wide range of environmental conditions, even in sand storms.

Particulate measurement excellence

AQT560 measures PM_{10}, $PM_{2.5}$ and PM_1 — down to 0.30 microns — reliably and consistently, thanks to its highly advanced laser particle counter technology. State-of-the-art algorithms and calibration processes allow excellent indicative class measurement for the top four gases CO, NO, NO_2 and O_3 with low sensor-to-sensor variation and reliable performance. The single particle detection range of 0.30 - 10 micrometers is ideal for detecting large particles such as street dust as well as smaller particles from wildfires and combustion engines.

The robust Vaisala HMP110 probe ensures reliable temperature and humidity measurements for accurate gas measurements and monitoring. AQT560 calculates measurement data directly within the sensor and transmits the data to the Vaisala system or your own system, without any cloud-processing modifications.

Plug-and-play and integration ease

AQT560 is easy to integrate with your existing network or as a plug-and-play sensor with Vaisala Beam Weather Station BWS500.

Access your air quality observations through your own system or the Vaisala Xweather cloud platform for easy and convenient data management.