

pegasor

PEGASOR
AQTM URBAN

**THE LEADING EDGE IN OUTDOOR
AIR QUALITY MONITORING**

RAISING THE BAR IN OUTDOOR AIR QUALITY MONITORING

Urban air contains a varying mixture of harmful particles. Environmental regulations exist for particles in PM₁₀ and PM_{2.5} size ranges, and these are routinely monitored.

However, smaller nanoscale, or ultrafine particles (UFP, 10–100 nm in diameter), which pose way more serious health risks, are not detectable by traditional monitoring methods. As a result, the data these instruments provide is not a reliable indicator of overall air quality.

The Pegasor AQ Urban **detects all particles larger than 10 nm** and thus provides **accurate measurements** also on the **most hazardous particles** in the air. That makes it the optimal tool for city and neighbourhood level air quality monitoring.

WHAT MAKES AQ URBAN UNIQUE

IT GIVES AN ACCURATE OVERVIEW OF AIR QUALITY

- Very sensitive to ultrafine particles
- Indicates particle mass, particle number, and Lung Deposition Surface Area (LDSA)

IT'S SIMPLE AND AFFORDABLE

- Easy to install, requires little installation space
- Carefree and low-cost operation: needs maintenance only once a year

IT'S RELIABLE

- No need for frequent calibration
- Consistently high data quality, thanks to extensive self-diagnosis with alarm functions

IT'S VERSATILE

- Various methods for data transfer, including direct cloud storage



WHAT CAN YOU DO WITH THE COLLECTED DATA?

Pegasor AQ™ Urban is the perfect tool for monitoring air quality and pollution levels in all outdoor environments, such as highways, roads, industrial areas, residential areas, and parks.

Setting up a network of devices will allow you to generate big data about your urban air quality.

- observe and **analyze long and short term air quality** at city and neighbourhood level
- **find** centralized and scattered **emission sources**
- **view the distribution** of pollution **city-wide**



TECHNICAL SPECIFICATIONS



Smallest detectable particle diameter
10 nm

Particle mass concentration range
1–100 000 $\mu\text{g}/\text{m}^3$

Particle number concentration range
1000–100 000 000 $1/\text{cm}^3$

LDSA range
1–100 000 $\mu\text{m}^2 / \text{cm}^3$

Data transfer
Modbus over Ethernet (wired)
Optional wireless 3/4G modem

Data rate
Adjustable 3 s – 4,5 h

Power
115/230 VAC, 50/60 Hz
60 W (Max 100W)

Dimensions (D x W x H, mm)
320 x 250 x 1000

Weight
20 kg

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