NANODUST AIRPN10

AIRPN10

NANOD

Our AirPN10 is an ultrafine particle (UFP) monitor designed for measuring the concentration of hazardous nanoparticles in ambient air. It allows users to assess the pollution levels of UFPs, which the WHO concluded to have severe impact on human health and the environment. The combination of an advanced diffusion charging detector together with our unique aerosol switching technology makes the AirPN10 the only instrument to determine quasi-simultaneously the solid and the total number concentration within a range of 1,000 to 500,000 particles per cubic centimeter. Together with the measured average particle size information, this allows to better link ambient UFP pollution to emission sources from traffic, industry and agriculture. Designed as lightweight and easy-to-use instrument for long-term usage, the AirPN10 provides a unique solution for dense and large-scale UFP immission monitoring

networks and the source assignment in emission hotspots.

FEATURES:

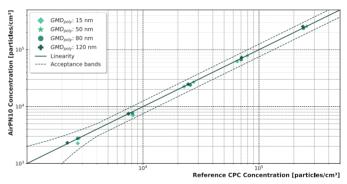
- 24/7 long-term monitoring of ultrafine particles
- Cost-effective & easy assessment of WHO critical pollution levels
- Measures solid and total particle number quasi-simultaneously
- Size sensitivity down to 10 nanometers
- Option for additional PM1/PM2.5/PM4/PM10 sensor
- Frequent self-checks ensure reliability
- Calibrated with soot in an ISO-17025 traceable lab
- Data transmission via Ethernet or 4G into cloud or customer server
- Lightweight design with wall or post mounting option
- Optional ambient sensor

SPECIFICATIONS:

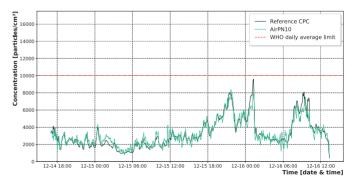
Solid and/or Total Particle Number Concentration (sPN & tPN) optional: PM1, PM2.5, PM4, PM10
1.000 – 500.000 #/cm3
10-300 nm, optional: 0.01 μm – 10 μm
25% or 1.000 #/cm3
Evaporation Tube (only sPN path)
Soot
PM10 Sampling Head
IP55 Weatherproof
Ethernet, 4G
5" Removable Touchscreen or Remote
1 year
~5 kg
100-230 VAC, 50-60Hz
<100 W



Application example of an AirPN10 mounted to a light pole in an emission hotspot



Size-dependent linearity against traceable reference CPC



Ambient ultrafine particle monitoring with the AirPN10