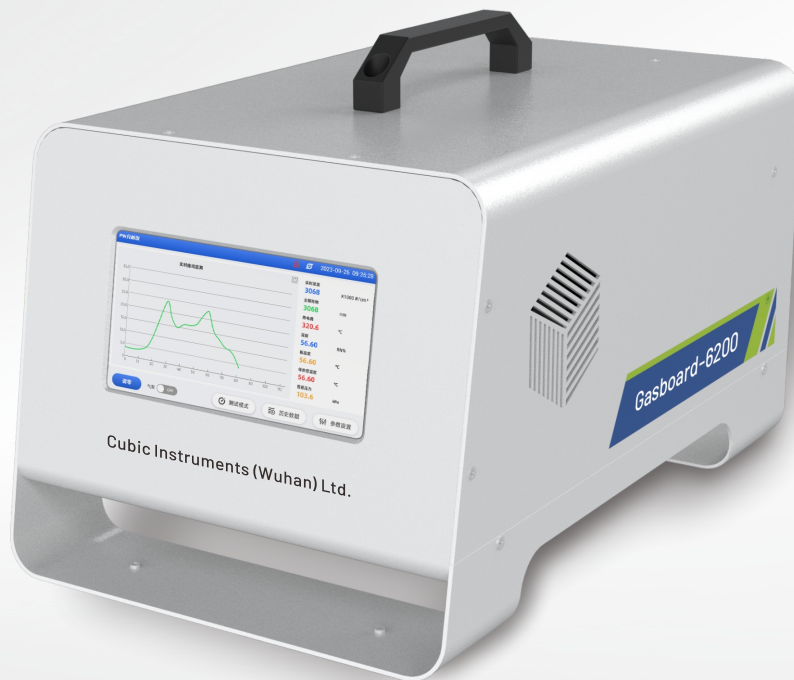


Portable Particle Counter



CUBIC
INSTRUMENTS

Comply with Netherlands Measurement Institute (NMI) PTI-PN Test Regulation,
Physikalisch-Technische Bundesanstalt (PTB) PTI-PN Test Regulation.



Efficient Measurement



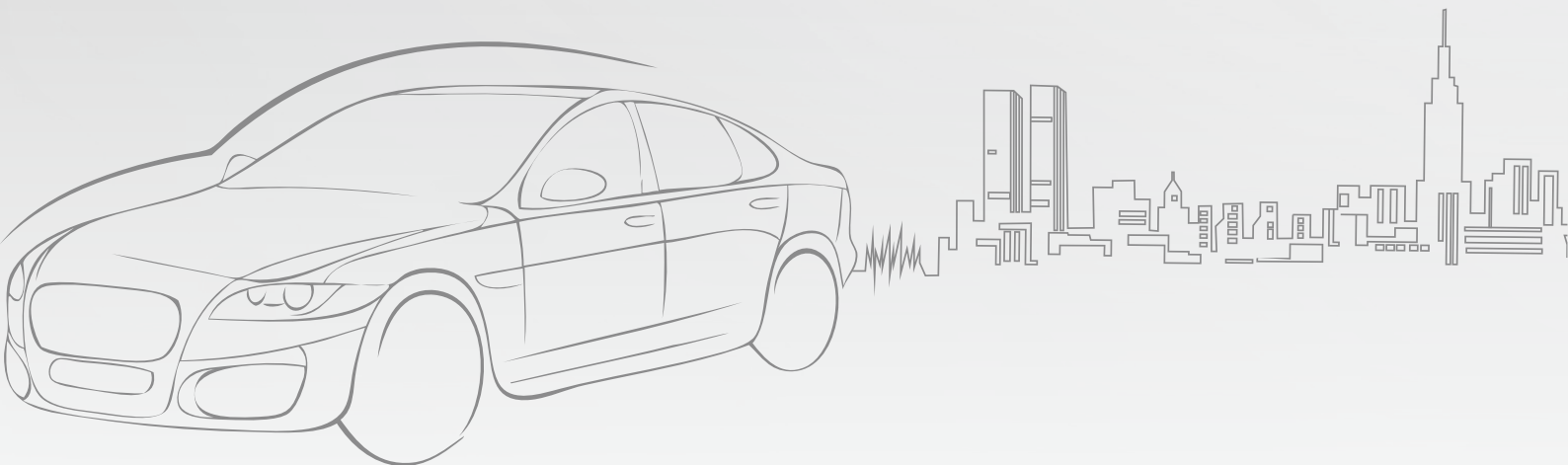
Easy Operation



High Sensitivity



Minimal Maintenance



Introduction

CUBIC Portable Particle Counter is designed to measure the particle number of fine particles in automotive exhaust gas. Based on DC (Diffusion Charge) principle, the portable particle counter determines the number of particles by measuring the charge carried on particles in sample gas. The exhaust gas can be directly measured, no need for filtration and dilution, ensuring long-term clean operation and reducing the maintenance costs effectively. The portable particle counter is designed with features of high sensitivity, high accuracy, fast response, excellent stability, etc. Its high-definition touch screen design better enhances HMI experience.

Features

- Diffusion Charge principle realizes high sensitivity of ultrafine particles measurement.
- Response time is less than 10 seconds, ensuring fast and reliable measurement of PN-PTI application.
- No affect from the smoke blockage and vibration, no filtration and dilution needed.
- Straight-through gas circuit greatly eliminates blocking risk and ensures long-term stable operation.
- No need for auxiliary equipment like compressed air device.
- Robust design with durable materials and sturdy structure, ensures minimal maintenance and excellent quality.

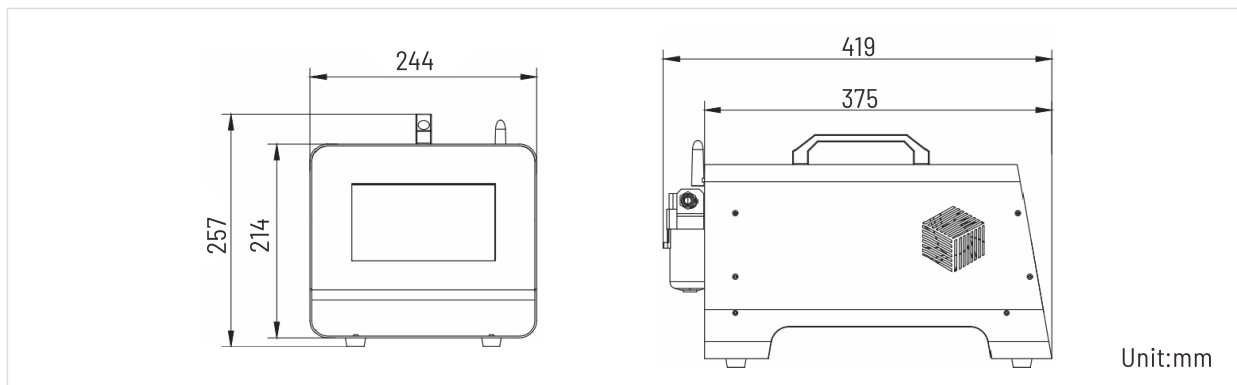
Specifications

Portable Particle Counter	
Measurement Range	5,000~10,000,000 #/cm ³
Particle Size	≥ 23nm
Response Time	< 10s (T ₀ -T ₉₅)
Working Temperature	0°C~55°C
Working Voltage	AC100~230V (50~60Hz)
Air Inlet	Heat tracing pipe (230V or 110V AC heating), pipe length can be customized
Output	RS-232 (RS-485/Blue Tooth/4G/Wi-Fi customizable)
Dimension (L*H*W)	244*257*419(mm)
Weight	<10kg

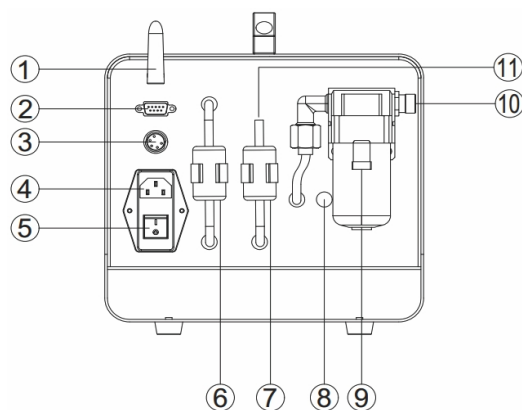
*Please refer to the specifications for specific parameters.

For more technical information, please contact sales@gasanalyzer.com.cn

Dimension



Interface Definition



Unit:mm

PIN NO.	Function	Description
1	Antenna	Spare antenna port to expand Wi-Fi and 4G functions
2	RS-232	External communication port
3	Power Supply for Heat Tracing	Port of tracing pipe for heating and temperature control
4	Power Supply Port	AC 220V power input
5	Power Switch	Switch for equipment power
6	Dust Filter	Coarse air filter
7	HEPA	High efficiency particulate air filter
8	Gas Outlet	High-temperature exhaust port
9	Gas-water Separator	Pre-treatment filter for sample gas
10	Sample Gas Inlet	Sampling port of tracing pipe
11	Air Inlet	Air intake port

Applications

Automobile emission PN detection
Automobile DPF device failure detection

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