



# Particle Count Sensor

The InstruVU Particle Count Sensor is a specialized air quality monitor designed to detect minute particulate matter in the atmosphere.

It is an essential tool for clean rooms, pharmaceutical manufacturing, and industrial workshops where maintaining low dust and particle levels is critical for product quality and regulatory compliance.



# FEATURES

- **Precision Laser Sensing:** Utilizes advanced laser scattering technology to accurately measure PM2.5, PM10, and particle counts in real-time. **Clean Room Optimized:** Specifically designed for contamination control, helping facilities adhere to strict air quality standards like ISO clean room classifications. **Rugged Industrial Housing:** Built with a weatherproof and UV-stabilized enclosure, allowing for reliable operation in both indoor manufacturing areas and outdoor environments. **Long-Range Wireless Connectivity:** Transmits data across extended distances to a central gateway, ensuring site-wide coverage without expensive data cabling. **Maintenance-Free Power:** Equipped with an ultra-high-capacity 19,000 mAh battery that supports a service life of up to 10 years. **Smart Configuration:** Features NFC technology for effortless mobile setup and supports local data logging to prevent data gaps during network instability.

## SPECIFICATIONS

### Features:

Detection Range:	0.3 $\mu\text{m}$ to 10 $\mu\text{m}$
Measurement Parameters:	PM2.5, PM10, and Particle Count
Accuracy:	$\pm 10\%$ (0 ~ 100 $\mu\text{g}/\text{m}^3$ ); $\pm 10 \mu\text{g}/\text{m}^3$ (100 ~ 1000 $\mu\text{g}/\text{m}^3$ )
Operating Principle:	Laser Scattering
Power Supply:	19,000 mAh Li-SOCI2 battery
Operating Temperature:	-30°C to +70°C
Communication Range:	Up to 10km (Line of sight)
Enclosure Rating:	IP65 Weatherproof
Mounting:	Wall, Pole, or DIN Rail

## Lab



## Clean Room



## Hospital

