

AirCount Remote

Remote particle counter with built-in blower



28.3 L/min

Sampling flow rate

6

Particle channels

Blower

Built-in air sampling

Keep your cleanroom in view.

AirCount Remote brings particle monitoring to your critical environments. Air sampling, particle measurement and local data storage come together in one instrument. Open communication protocols let you integrate measurement data into central monitoring, providing a basis for tracking particle levels and making informed quality decisions.

Why choose AirCount Remote?

Sampling at the measurement point

A built-in blower with automatic flow regulation provides air sampling within the instrument.

Multiple particle sizes

Different particle channels provide measurement data from the same fixed measurement point.

Local data storage

Internal storage complements central data collection.

Integration into your monitoring

Open communication protocols offer options for connecting to your central monitoring system.

Designed for cleanrooms

A wipe-clean stainless steel enclosure and integrated exhaust filtration support everyday use.

Wired or with Wi-Fi

Choose a wired version or a version with additional Wi-Fi.

Technical specifications

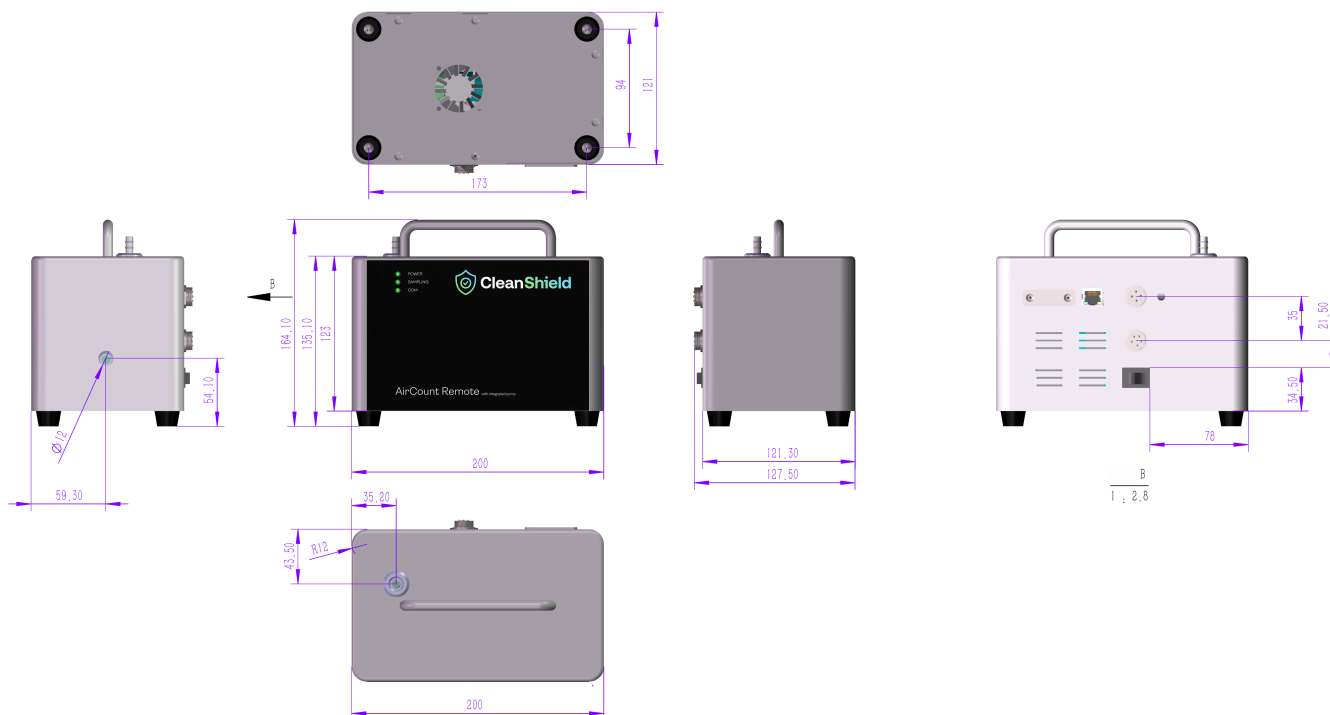
Property	Specification
Measurement performance	
Minimum particle size	0.3 µm
Number of channels	6
Particle channels	0.3 / 0.5 / 1.0 / 3.0 / 5.0 / 10.0 µm
Counting efficiency at minimum size	50% ± 20%
Counting efficiency at second test size	100% ± 10%
Maximum particle concentration	35,000 particles/L (particles ≥ 0.1 µm)
Light source	Semiconductor laser
Laser service life	> 80,000 h
Sampling	
Air sampling	Built-in blower
Sampling flow rate	28.3 L/min
Flow tolerance	± 5%
Flow regulation	Automatic
Exhaust filtration	Built-in
Self-cleaning time	≤ 5 min
Sampled air	Free of corrosive gases
Power	
Supply voltage	24 V DC
Maximum power consumption	70 W
Communication	
Interfaces	RS-485 / Ethernet
Communication protocols	Modbus RTU / Modbus TCP / MQTT (client)
Wi-Fi	Only S-RPC-P28-4EW
Ethernet connector	RJ45
Analogue output	4-20 mA
Data storage	
Internal storage capacity	> 10,000 records
Environmental conditions	
Operating temperature	0–40 °C
Operating humidity	5–95% RH
Condensation	Non-condensing
Status indicators	
Front indicators	POWER / SAMPLING / COM
Mechanical specifications	
Overall dimensions (W × D × H)	200 × 127.50 × 164.10 mm
Enclosure height	123 mm
Height without handle	135.10 mm
Enclosure	Stainless steel 316L
Weight	2.0 kg
Enclosure - side, underside and top views	
Depth including local projection	121.30 mm
Depth in underside view	121 mm
Indicated corner radius	12 mm
Feet and side opening - underside and left views	
Foot centre spacing (W × D)	173 × 94 mm
Side opening diameter	12 mm

Property	Specification
Side opening centre from left edge	59.30 mm
Side opening centre above support plane	54.10 mm
Inlet and rear panel - top and rear views	
Inlet centre from left/top edges	35.20 / 43.50 mm
Vertical connector centre spacing	35 mm
Lower connector centre to switch top	21.50 mm
Switch top above enclosure bottom	34.50 mm
Switch right edge to enclosure right edge	78 mm
Standards and guidelines	
ISO 21501-4:2018	Determination of particle size distribution - Single particle light interaction methods - Part 4: Light scattering airborne particle counter for clean spaces
GMP	Good manufacturing practice for pharmaceutical products.
ISO 14644-1:2015	Cleanrooms and associated controlled environments - Part 1: Classification of air cleanliness by particle concentration
FDA 21 CFR Part 11	Electronic Records; Electronic Signatures



Rear view

Dimension drawing



Dimension drawing – dimensions in mm.

Overall dimensions (W × D × H), including protruding connectors, handle and feet. Excludes connected tubing and cables. Foot dimensions are centre-to-centre distances.

Ordering information

Order code	Configuration
S-RPC-P28-4EN	28.3 L/min, built-in pump/blower; RS-485, Ethernet.
S-RPC-P28-4EW	28.3 L/min, built-in pump/blower; RS-485, Ethernet, Wi-Fi.

Contact CleanShield or your distributor for product advice, configuration selection and ordering details.

CleanShield

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Your distributor