

ISO COUNT

Particle Counters Data Sheets



µm	Δ	Σ	Location 7
0.30	1,040	2,782	Mode: Automatic
0.50	919	1,742	Sample: 00:01:00
1.00	526	823	Hold: 00:00:00
2.50	228	297	Cycle: 1 / Cont.
5.00	54	71	Record: 1006 / 45000
10.00	17	17	Recipe: Recipe 1

COUNTING



The ISOcount Max Remote Particle Counter is the most feature-advanced remote airborne particle counter available. Integration is easy into a building automation and cleanroom management system via Ethernet, or (optional) Wireless 802.11 b/g, RS485 or RS232.

The particle counter's display and report 6 user-selectable particle size channels, as well as temperature and relative humidity, flow and sensor status, date of last calibration, serial number, laser on-time and date of manufacture for easy maintenance and warranty management.

This remote particle counter stores up to 45,000 time stamped particle count and environmental data records which provides data redundancy on every instrument. ISOcount Max counters can be controlled and monitored remotely via web browsers for ultra-convenient remote operation.

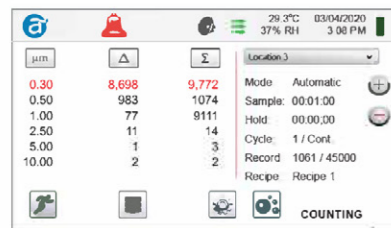
TECHNICAL DRAWINGS



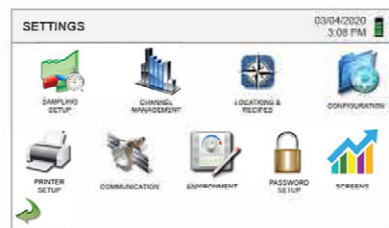
- Elite remote particle counter
- Built-in vacuum pump
- Six particle size channels
- Ultra precise readings

Standard Accessories

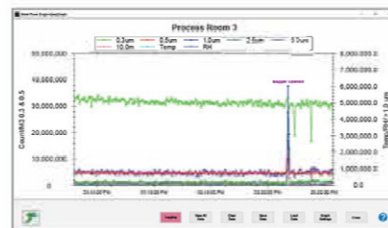
- Carrying Case
- Wireless Output Antenna
- 55Wh Battery - Rechargeable & Removable
- Temperature and Humidity Probe
- Isoprobe Threaded
- Filter/Filter Assembly



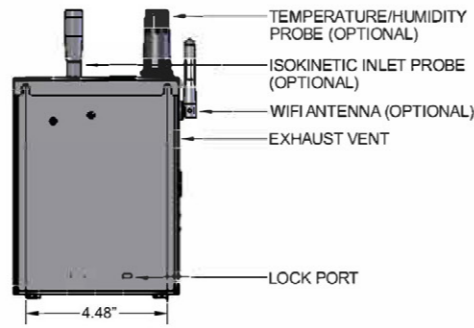
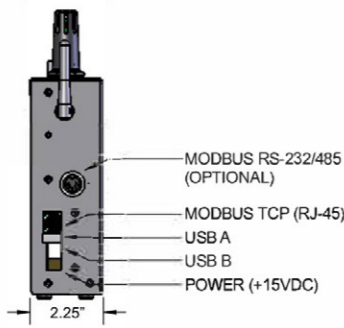
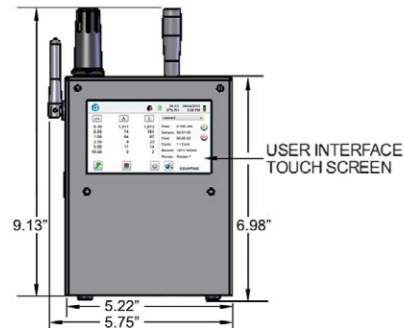
Audible and Visual Alarm Management



Icon Driven Menus for Ease-of-Use



Control and Manage Remotely with IMS



ISOCOUNT MAX FEATURES

- Measures 0.3 µm to 25 µm
- 0.1 CFM (2.83 LPM) flow rate
- Long life laser diode technology
- Approximates mass concentration in µg/m³
- Measures up to 6 channels of simultaneous data
- Large easy-to-use icon driven colour touch screen display
- (Optional) temperature and relative humidity probe
- Internal vacuum pump
- Stores up to 45,000 sample records for on-board data redundancy
- Easy configuration and transferable from instrument to instrument
- Connect using Ethernet, USB or (optional) Wireless 802.11 b/g, RS485, or RS232
- Static or dynamic IP address (DHCP)
- Internal audible alarm with comprehensive alarm management
- User-selectable channel sizes
- Complies with ISO 21501-4 and JIS B9921 standards
- Easy to clean and wipe down with minimal particle traps
- Versatile mounting options
- Seamless integration into a facility monitoring system
- Lightweight stainless steel enclosure
- 1 year limited warranty.
- Extended warranties available.
- Flow rates – 0.1 CFM (2.83 LPM)

The ISOcount Pro Portable Particle Counter delivers fast, accurate airborne particle monitoring for cleanrooms, controlled environments, pharmaceutical manufacturing, healthcare facilities, and critical process applications.

Designed for users who require mobility without compromising performance, the ISOcount Pro combines advanced particle detection technology, an intuitive touchscreen interface and integrated reporting capabilities in a compact, rugged enclosure.

Real-time monitoring and onboard data collection allow environmental conditions to be assessed instantly, helping maintain compliance and support contamination control programmes.



- Portable particle counter
- Ideal for rapid troubleshooting
- Real-time source investigations
- Lifetime warranty

Standard Product Options

- Optional temperature and relative humidity probe
- Connect using Ethernet, USB or wireless
- Calibration for custom size channels available

TECHNICAL FEATURES

Data Collection

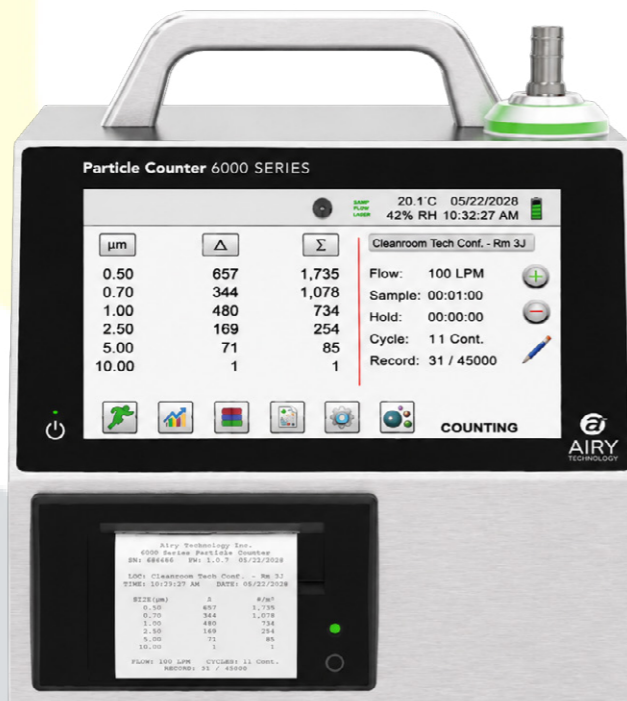
Automatically logs and stores particle count data, providing a complete monitoring history for analysis, reporting and audit support.

Real-Time Monitoring

Instant particle measurements enable users to identify contamination events as they occur and react quickly to changing environmental conditions.

Intelligent Architecture

Built with a robust hardware platform designed to maximise reliability while simplifying operation and maintenance.




Process Improvement

Supports continuous environmental monitoring programmes by providing actionable data that can help optimise cleanroom performance and contamination control strategies.

Power Management

Designed for extended operation with efficient power consumption and dependable long-term performance.

Remote Diagnostics

Advanced diagnostics capabilities assist with system monitoring and maintenance planning, reducing downtime and supporting operational continuity.



- Portable particle monitoring solution
- Real-time contamination detection
- Large colour touchscreen interface
- Integrated thermal printer for immediate reporting
- High-accuracy particle measurement
- Designed for cleanroom and controlled environment use

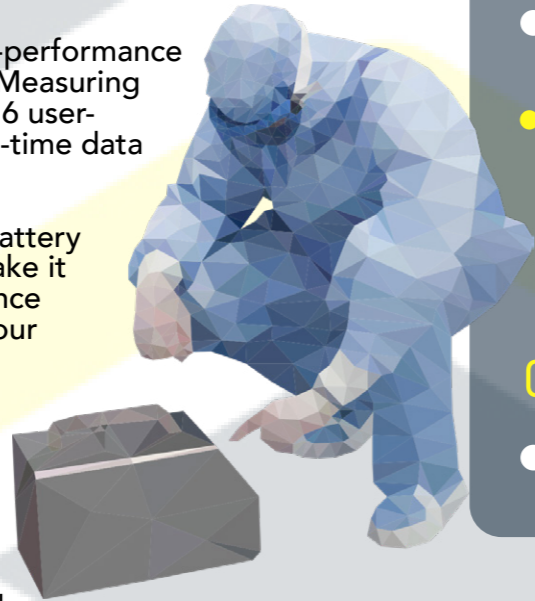
ISOCOUNT PRO FEATURES

- Rugged construction for daily operational use
- User-friendly operation with intuitive menus
- Super-quick deployment with minimal set-up requirements

The ISOcount Plus is a compact, high-performance handheld airborne particle counter. Measuring particles from 0.3 to 25.0 µm across 6 user-selectable channels, it offers precise, real-time data with a flow rate of 0.1 CFM (2.83 LPM).

Its intuitive touchscreen interface, long battery life, and versatile connectivity options make it an essential tool for maintaining compliance and ensuring environmental quality for your cleanroom.

Easy to configure, this instrument also features optional temperature and relative humidity. View data on screen or via printer, real time through its versatile output options, or export to Instrument Management Software (IMS). ISOcount Plus counters can be controlled and monitored remotely via web browser.



- Handheld counter
- Long battery life
- Easy operation
- Intuitive interface
- Multiple output options available
- Robust design

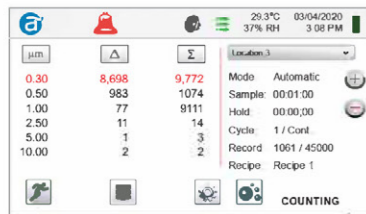
Standard Product Options

- Optional temperature and relative humidity probe
- Connect using Ethernet, USB or wireless
- Calibration for custom size channels available



TECHNICAL DRAWINGS

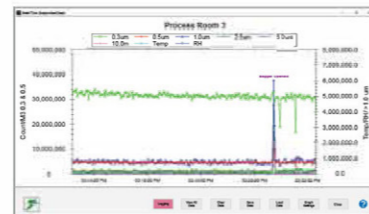
ISOcount PLUS



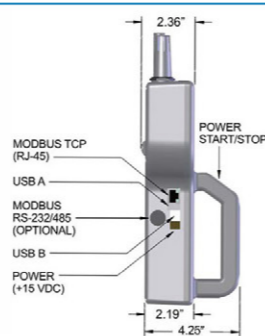
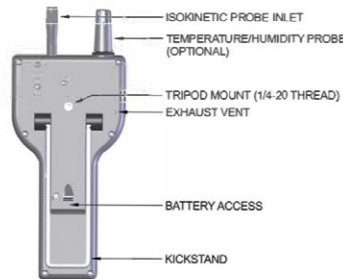
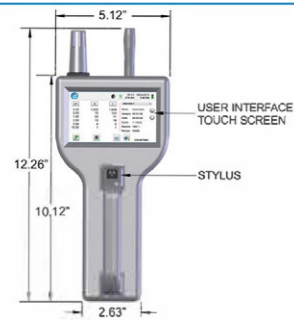
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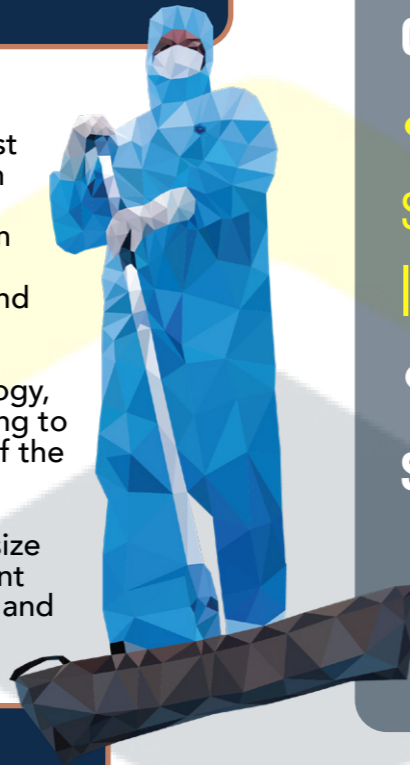
ISOCOUNT PLUS FEATURES

- Industry's highest concentration of 15,000,000 particles/ft³ @ 10% coincidence loss
- Ideal for use in Cleanrooms, Industrial Health & Safety, and Air Quality applications
- Industry's first Sleep Mode and Power Conservation Mode with intelligent battery
- Unparalleled and most comprehensive internal self-diagnostics of any remote particle counter
- Internet of Things (JSON) communication allows for network or cloud based data options
- Wide Particle Size Detection: Accurately measures particles from 0.3 to 25.0 µm.
- User-Friendly Interface: Large, icon-driven colour touchscreen for easy operation
- Extended Battery Life: Over 10 hours of continuous use on a full charge
- Comprehensive Data Management: Stores extensive sample records with annotation capabilities
- Versatile Connectivity: Multiple output options for seamless data transfer and remote monitoring
- Robust Design: Lightweight, durable enclosure suitable for various environments
- Compliance Reporting: Generates reports aligned with ISO 14644-1, EU GMP Annex 1, and FS 209E

ISOcount Lite provides real-time monitoring of particle fall-out/deposition for cleanrooms. Whilst airborne sensing is ideal for small particles which remain suspended in the air and are removed by filtration, the higher risk to operations can be from particles larger than 5 µm, which are more quickly deposited on surfaces leading to contamination and yield losses.

Featuring Direct Particle Detection (DPD) technology, ISOcount Lite uses high performance silicon sensing to directly monitor particles settling on the surface of the sensor.

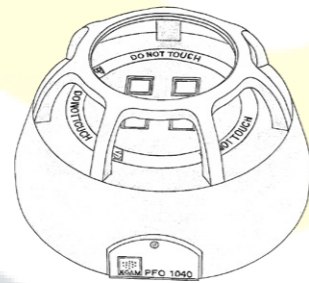
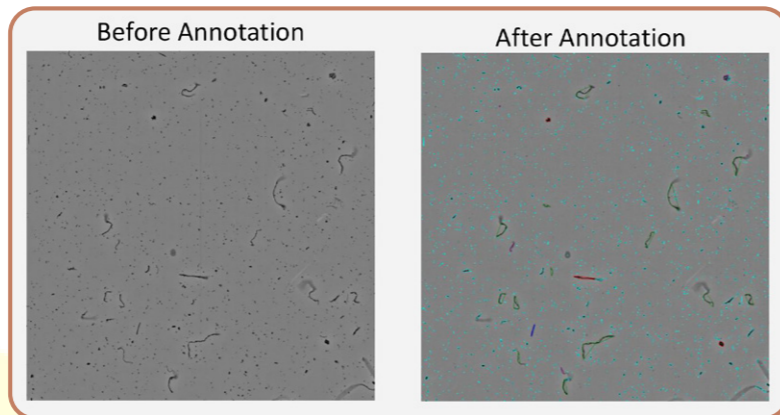
Advanced recognition algorithms detect particle size and profile providing particle count by size, percent area covered and a differentiation between fibres and particles. Alarms can be triggered when pre-defined limits are exceeded.



- Fall-out particle counting technology
- Ideal for identifying shape and size or larger particles
- Silicon-based sensor detection
- Differentiates particles from fibres

TECHNICAL FEATURES

Total Detection	Area 4 cm ²
Sample Rate	10 per hour
Reporting XCAM	PFO Reporting Suite
Particle Readout	Size, shape, particle/fibre classification, distribution
Particle Detection Range	5 µm to 750 µm
Alarms	Percentage area covered (PAC) alarm PFO cleanroom level alarm
Operating Temperature Range	+20 to +35 °C
Storage Temperature Range	0 to +40 °C
Power	5 V DC Power Supply 110-240 V AC, 400 mA
Housing Material	Aluminium
Dimension (LxWxH)	178 x 178 x 92 mm
PC Interface	USB 2.0
PC Requirements	64-bit, intel core i7, 8 GB of RAM



A

B

ISOcount Lite size & weight

A	B
178mm	92mm
Weight	
Approx. 2kg	

ISOCOUNT LITE FEATURES

- Automatic particle fall-out monitoring
- Alerts/alarms for exceptions
- Avoid contamination/yield losses
- Track trends – allows continuous tracking with time and room activity
- XCAM direct particle detection technology
- Particle monitoring 5 µm to >750 µm
- Reporting to IEST-STD-CC1246E
- Touchscreen reporting dashboard
- Take action to prevent yield losses part way through a key process.
- Identify activities which create higher contamination levels
- Monitor the effects of process improvements
- Assess the effect of new processes
- Automatically collect surface contamination statistics for project reporting



THE GUARDWARE customer journey is all about consultation and collaboration. We're here to support and empower you – to help you tailor your order so that it meets all the requirements necessary to elevate your operations.

This philosophy applies to each and every product in the entire range – which is why each and every customer has the option to open up a supportive dialogue with a member of the Guardware team.

We've curated standard product ranges for each item in the ISO family in order to help streamline your customer experience.

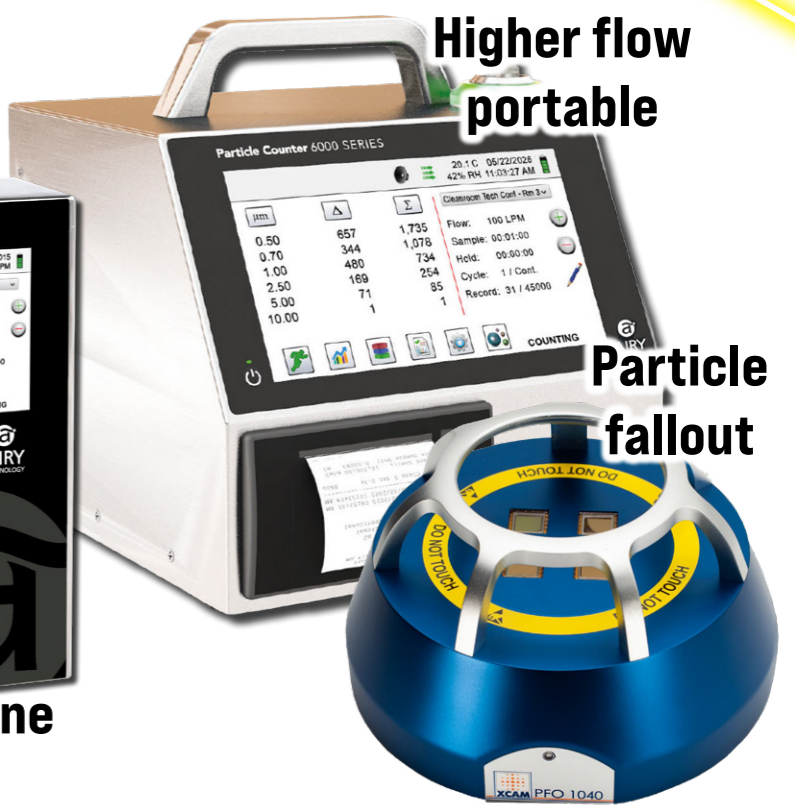
But we're also ready to help deliver solutions that are 'outside the box' – just tell us what your bespoke requirements are, and we'll work with you to develop a product that ticks all the right boxes.

To get you started, here's a simple Ordering Guide to help you tailor your perfect ISOcount particle counter.



STEP THREE

Consider what type of particle counter your facility needs?



STEP ONE

What sort of particle size do you need/want to monitor?

- 0.1 µm
- 0.2 µm
- 0.3 µm
- 0.5 µm
- 1.0 µm
- 5.0 µm

STEP TWO

Think about your sampling flow rate

- 1.0 CFM
- 0.5 CFM
- 0.1 CFM
- 5.0 CFM
- 10.0 CFM
- 0.03 CFM

STEP FOUR

What sort of data, alerts and software will you consider?



"We need a system that offers continuous monitoring for a GMP Grade B & C facility – what do you recommend?" "

STEP FIVE

Place your order!

- Head over to www.guard-ware.co.uk and submit your Basket enquiry for a specially tailored quote!
- Email sales@guardtech.com to begin your journey with a Guardware rep
- Call the team directly on 0330 113 0303



Guardware

cleanroom hardware



☎ 0330 113 0303

✉ sales@guardtech.com

🌐 www.guard-ware.com