

GT-321 Handheld Particle Counter



Met One Instruments, Inc.

The reliability you demand at a price you won't believe!

Small Size—Big Performance

The handheld GT-321 is a portable particle counter that counts particles down to 0.3 microns—giving you portability and reliability at the lowest price in the industry.

Completely Self-Contained—Selectable Particle Sizes

Don't let the size fool you—the GT-321 is completely self-contained with its own internal battery and sample pump, and is programmable, allowing you to choose your particle size of interest from five sizes: 0.3, 0.5, 1.0, 2.0, or 5.0 microns.

Fast Sampling

Unlike other counters that can take up to a minute to deliver results, the GT-321 starts delivering volumetric concentration results in about 6 seconds! This facilitates quick multi-site sampling, tracing particle sources and site particle trending.

Simple Operation

Only two front-panel buttons control the size channels and sample cycle. The side-mounted power switch allows for convenient thumb operation.

Battery or AC Powered

The self-contained battery pack powers the unit for 8 hours of typical intermittent operation, and for up to 5 hours of continuous use. The included AC adapter operates the counter, even when the battery pack is discharged, and recharges the depleted battery overnight (16 hours) when turned off.

Off-the-Shelf Delivery

Units are available for same-day or next-day shipping!



Applications:

Controlled Environments	Filter Testing
Indoor Air Quality	Laboratory Environments
Process Control	Manufacturing Environments
HVAC Applications	Emission Sourcing

Whatever your particular needs,
the right choice is only natural.

OPERATING PRINCIPLE

Counts individual particles using scattered laser light

PERFORMANCE

Particle Size Range	>0.3, >0.5, >1.0, >2.0, and >5.0 μm (selectable)
Concentration Range	0–3,000,000 particles per cubic foot (105,900 particles/L)
Accuracy	$\pm 10\%$, to calibration aerosol
Sensitivity	0.3 μm
Flow Rate	0.1 cfm (2.83 lpm)
Sample Time	1 minute total (first reading in 9 seconds, subsequently every 6 seconds)

ELECTRICAL

Light Source	Laser diode, 30 mW, 780 nm
Power	6V Ni-MH self-contained battery pack—provides 8 hours of typical intermittent operation, up to 5 hours continuous use
AC Adapter/Charger	AC to DC module, 100–240 VAC to 9 VDC @ 350 mA typical
Communications	RS-232
Certifications	Meets or exceeds CE, ISO, ASTM, and JIS international certifications

INTERFACE

Display	16-character LCD
Keyboard	2-button membrane

PHYSICAL

Size	Height = 6.25" (15.9 cm) Width = 3.65" (9.3 cm) Thickness = 2.0" (5.1 cm)
Weight	1.74 lb - 28 oz (0.79 kg)

ENVIRONMENTAL

Operating Temperature	0° to +50°C
Storage Temperature	-20° to +60°C

ACCESSORIES

Supplied	Operation Manual Custom Serial Cable AC to DC Converter Module with IEC AC Power Cord Isokinetic Sample Probe Screwdriver Carrying Case Zero Particulate Filter
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