

# GT-321 Handheld Particle Counter

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 $\mu\text{m}$ (selectable)
Concentration Range	0–3,000,000 particles per cubic foot (105,900 particles/L)
Accuracy	$\pm 10\%$ , to calibration aerosol
Sensitivity	0.3 $\mu\text{m}$
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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