

GT-521 Handheld Particle Counter



Bench unit performance in the palm of your hand.

Big Performance, Small Size

The GT-521 is a full-featured, battery-operated, portable laser particle counter that provides the functionality of a bench unit with the convenience of a handheld! It can datalog particle counts continuously or send them to a network.

Dual Programmable Particle Channels

Two programmable particle channels with a range of 0.3–5.0 microns each show differential or cumulative particle counts in real time, with selectable count units.

Simple and Powerful Menu-Driven Command Set

A simple touch of a button sets particle sizes, sample time, alarm settings, and basic setup parameters such as date/time and communications settings. Remote operation via RS-232 or RS-485 communications ports allows extensive control, including all front-panel operations.

Flexible Data Interfaces

Stores up to 4,000 records for printer output, Excel® formatted output, or networked datalogging via the included single computer software (GT-Comm).

Temperature and Relative Humidity Option

A plug-and-play option that immediately adds ambient temperature and relative humidity capabilities to the displayed and logged data.



Applications:

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|-------------------------|--------------------|
| Controlled Environments | Filter Testing |
| Indoor Air Quality | Compliance Testing |
| Process Control | Emission Sourcing |
| HVAC Applications | Remote Sampling |
| | QA Programs |

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

OPERATING PRINCIPLE

Counts individual particles using scattered laser light

PERFORMANCE

Particle Size Range	Two channels—from 0.3 to 5.0 μm (selectable in 0.1 μm increments)
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	Adjustable: 6 to 999 seconds
Hold Time	Adjustable: 1 to 999 seconds

ELECTRICAL

Light Source	Laser diode, 35 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 or RS-485 Half Duplex
Certifications	Meets or exceeds CE, ISO, ASTM, and JIS international certifications

INTERFACE

Display	16-character \times 4-line LCD
Keyboard	7-key membrane type

PHYSICAL

Size	Height = 6.25" (15.9 cm) Width = 4.0" (10.2 cm)
	Thickness = 2.1" (5.4 cm)
Weight	1.94 lb - 31 oz (0.88 kg)

ENVIRONMENTAL

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

ACCESSORIES

Supplied	Operation Manual Custom Serial Cable Communication Software (GT-Comm) AC to DC Converter Module with IEC AC Power Cord Isokinetic Sample Probe Screwdriver Carrying Case Zero Particulate Filter
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Optional	RH & Temperature Probe (Met One Part Number G3120) Flow Meter (Met One Part Number 9801) Portable Printer (Met One Part Number G3115)
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 **Met One Instruments, Inc.**