

804 Four Channel Handheld Particle Counter

Accurate – Affordable – Reliable



Small Size —Big Performance

The 804 handheld particle counter is a 4 channel portable particle counter that counts particles 0.3 microns to 10.0 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—this unit is completely self-contained with its own internal battery and sample pump, and is programmable, allowing you to choose your particle sizes of interest from seven sizes: 0.3, 0.5, 0.7, 1.0, 2.5, 5.0 or 10.0 microns.

Fast Sampling

Unlike other counters that can take up to a minute to deliver results, the 804 incorporates user selectable sampling time up to 1 minute and displays counts in as little as 3 seconds. The unit will take single or continuous samples.

Simple Operation

Only two front-panel buttons and scroll wheel provide a user friendly, menu driven platform that provides ease in configuration.

Battery or AC Powered

The self-contained battery pack powers the unit for 30 hours of typical intermittent operation, and for up to 8 hours of continuous use. The included AC charger / adapter operates the counter, even when the battery pack is discharged, and recharges the depleted battery in 2.5 hours.

Flexible Data Interfaces / USB Communication

Stores up to 2500 records for output, Excel formatted output via included single computer software. USB interface provides quick data download and field firmware upgrades.

Applications:

Controlled Environments	Filter Testing
Indoor Air Quality	Laboratory Environments
Process Control	Trace Contamination Source
HVAC Applications	QA Programs



Figure 1 – Model 804 pictured with optional protective boot

OPERATING PRINCIPLE	Counts individual particles using scattered laser light
PERFORMANCE	
Particle Size Range	Four Channels : >0.3, >0.5, >0.7, >1.0, >2.5, >5.0, and >10.0 µm (selectable)
Concentration Range	0 – 3,000,000 particles per cubic foot (105,900 particles/L)
Accuracy	± 10%, to calibration aerosol
Sensitivity	0.3 µm
Flow Rate	0.1 cfm (2.83 lpm)
Sample Time	Adjustable (3-60 seconds)
Status Indicators	Low Battery, Service
ELECTRICAL	
Light Source	Laser diode, 30 mW, 780 nm
Power	7.2V Lithium Ion self-contained battery pack—provides 30 hours of typical intermittent operation, up to 8 hours continuous use
AC Adapter/Charger	AC to DC module intelligent Lithium Ion charger, 100 – 240 VAC to 8.4 VDC @ 1500 mA typical. Charge time 2.5 hours typical
Communications	USB
Certifications	Meets or exceeds CE, ISO, ASTM, and JIS international certifications
INTERFACE	
Display	2 line by 16-character LCD
Keyboard	2-button membrane
PHYSICAL	
Size	Height: 6.75" (17.2 cm) Width: 3.75" (9.5 cm) Thickness: 2.0" (5.1 cm)
Weight	1.31 lb (21 oz) (0.60 kg)
ENVIRONMENTAL	
Operating Temperature	0° to +50°C
Storage Temperature	-20° to +60°C
ACCESSORIES	
Supplied	Operation Manual AC to DC Converter Module with IEC AC Power Cord NIST Traceable Calibration Certificate USB Cable Software
Optional	Carrying Case (P/N 8517) Protective Boot (P/N 80450) Zero Filter Kit (P/N 80846) Flow Meter Kit (P/N 80530)

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