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 selfcontained 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

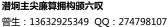
HVAC Applications QA Programs



www.medicalQC.com



Figure 1 – Model 804 pictured with optional protective boot



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Specifications 804

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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