# 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:**

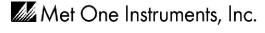
Controlled Environments	Filter Testing
Indoor Air Quality	Laboratory Environments
Process Control	Trace Contamination Source
HVAC Applications	QA Programs



Figure 1 – Model 804 pictured with optional protective boot

### **Specifications**

**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) Low Battery, Service Status Indicators **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 to DC module intelligent Lithium Ion charger, 100 – 240 VAC to 8.4 VDC @ 1500 mA typical. AC Adapter/Charger Charge time 2.5 hours typical Communications USB Certifications Meets or exceeds CE, ISO, ASTM, and JIS international certifications **INTERFACE** 2 line by 16-character LCD Display Keyboard 2-button membrane PHYSICAL Height: 6.75" (17.2 cm) Width: 3.75" (9.5 cm) Thickness: 2.0" (5.1 cm) Size 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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