

# BT-610

## Bench-Top Particle Counter



Met One Instruments, Inc.

The BT-610 is a compact battery operated particle counter with six selectable size channels, built-in printer, housed in a portable stainless steel case. Flow rate is 0.1 cfm (2.83 lpm) and is maintained with volumetric flow control for improved accuracy.

### Simple Operation

The BT-610 has a large size display with very large characters, audio alarm, and internal printer that work together to verify particulate levels. If the particle count exceeds a pre-set limit, the audible alarm will beep, the screen display will flash, and the printer will print the alarm value. Two programmable count alarm limits may be set.

### User Selectable Sizes

Each of the six channels may be individually set by the operator from 0.3 to 10 microns. Custom calibrations are not required.

### Data Storage and Connectivity

The BT-610 stores over 8,000 sample events. Sample history events can be viewed or printed and downloaded to a computer using Comet software or simple ASCII terminal commands. Connectivity is built-in for both digital (RS-232, RS-485) and analog output (0-5 VDC). The BT-610 also includes USB interface, and a Memory Stick port.

### Printer

The Printer has two modes of operation.

**Print Sample:** prints sample data at the end of each sample including alarm, date, time and location.

**Recall Data:** prints all sample data from first selected date and time to second selected date and time.

### Portable Desk Top

The BT-610 provides 6 channels, built-in printer and battery operation in a compact stainless steel case. The built-in battery provides 24 hours of typical (intermittent) operation and 8 hours continuous operation. Connect the AC adapter/charger for longer operation and battery charging.

### Temperature / Relative Humidity Option

A plug-and-play option can immediately add ambient temperature and relative humidity capabilities to displayed and logged data.



### Applications:

Cleanroom Monitoring

Medical Device Mfg.

Filter Testing

Hospitals

Food / Beverage

Aerospace Assembly

Paint Booths

Cosmetic Manufacturing

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

**PERFORMANCE**

Particle Size Range	0.3µm - 10µm, 6 channels
Calibrated Sizes	0.3 µm, 0.5µm, 1.0µm, 2.0µm 5.0µm and 10µm
User Size Settings	0.1µm steps from 0.3µm - 2.0µm 0.5µm steps from 2.0µm - 10µm
Concentration Range	0 – 3,000,000 particles per cubic foot (105,900 particle/L)
Accuracy	± 10% to calibration aerosol
Sensitivity	0.3 µm
Flow Rate	0.1 cfm (2.83 lpm)
Sample Time Adjustable:	1 to 999 seconds
Hold Time Adjustable:	0 to 999 seconds

**ELECTRICAL**

Light Source	Laser Diode, 90mW, 780 nm
Power	14.8V Li-Ion self-contained battery pack – Provides for 8 hours continuous use. Full recharge approximately 3 hours.
AC Adapter/Charger	Li-Ion Charger, 100 – 240 VAC to 16.8 VDC @ 1.8A
Communications	USB, RS-232 or RS-485
Standards	Meets ISO 21501-4

**INTERFACE**

Display	20 character x 4 line LCD
Keyboard	8 key membrane type

**PHYSICAL**

Size	Height = 8.75" (22.2 cm) With Handle = 10.25" (26.0 cm) Width = 6.75" (17.1 cm) Depth = 8.5" (21.5 cm)
Weight	8 lb - 1.6 oz (3.67 kg)

**ENVIRONMENTAL**

Operating Temperature	0° C to +40° C
Storage Temperature	-20° C to +60° C

**ACCESSORIES**

Supplied	Operation Manual (MOI #BT-637S-9800) USB Cable (MOI #500784) Comet Software (MOI #80248) Particle View Software Battery Charger (MOI #80643) Iso-kinetic Sample Probe (MOI #G3110) Zero Particulate Filter (MOI #G3111) Printer Paper - 2 Rolls (MOI #750514)
Optional	RH & Temperature Probe (MOI #G3120) Flow Meter (MOI #9801) Serial Cable (MOI #550065) ISO 21501-4 Calibration (MOI #80849)

