



## Met One Instruments, Inc.

# **BT-610 Bench-Top Particle Counter**

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.

### Key Features:

#### Simple Operation

The BT-610 has a large size display with very large characters, audible 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.

#### **Convenient for Compliance**

Comply with 21 CFR Part 11 with a password feature to prevent unauthorized changes to the user settings . ISO 21501-4 calibration is available for ISO 14644-1 compliance.

#### **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

- Clean-room Monitoring
- Medical Device Manufacturing
- Filter Testing
- Hospitals

- Food / Beverage
- Aerospace Assembly
- Paint Booths
- Cosmetic Manufacturing







## **Specifications**

## **BT-610 Bench-Top Particle Counter**

	Interface		
	Display	20 character x 4 line LCD	
	Keyboard	8 key membrane type	
	Performance PM		
	Ranges	0.3µm - 10µm, 6 channels	
	Calibrated Sizes	0.3 µm, 0.5µm, 1.0µm, 2.0µm5.0µm 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	$\pm$ 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 USB,	
	Communications	RS-232 or RS-485	
	Standards	Meets ISO 21501-4. CE marked. ISO 9001 manufacturing facility.	
	Physical		
	Weight	8 lb - 1.6 oz (3.67 kg)	
	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)	
	Environmental		
	Operation Temperature	0° to +40°C	
	Storage Temperature	-20° to +60°C Specifications are subject to change at a	any time.
<mark>SUPPLI</mark> Operati	ED ACCESSORIES		OPTIONAL ACCESSORIES
Manua			RH & Temperature Probe
Cable C			Flow Meter
Software			Serial Cable
	e View Software		Particle View RT Software ISO 21501-4 Calibration
-			130 Z 1301-4 Galiblation

# Met One Instruments,Inc.

Battery Charger

Iso-kinetic Sample Probe Zero Particulate Filter Printer Paper - 2 Rolls Calibration Certificate

> 1600 Washington Blvd. Grants Pass, Oregon 97526 Phone: 541.471.7111 Sales: sales@metone.com | Service: service@metone.com | Website: www.metone.com