

## BT-620 Bench-Top Particle Counter

The BT-620 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 1.0 cfm (28.3 lpm) and is maintained with volumetric flow control for improved accuracy.

### Key Features:

#### Simple Operation

The BT-620 has a large easy to read display, audio alarm, and internal printer that work together to verify particulate levels. If the particle count exceeds the users pre-set limit, the audible alarm will sound and the screen display, sample history and printout will indicate an alarm event. 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-620 stores over 8,000 sample events. Sample history events can be viewed or printed and downloaded to a computer using Particle View software or simple ASCII terminal commands. Connectivity is built-in for both digital (Ethernet, USB, RS-232, RS-485) and analog output (0-5 VDC). The BT-620 also includes 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-620 provides 6 particle sizes, built-in printer and battery operation in a compact stainless steel case. The built-in battery provides over 8 hours of typical (intermittent) operation or 4 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
- Cosmetic Manufacturing

## Specifications

## BT-620 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	0.3µm, 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 – 600,000 particles per cubic foot (over 20M particles/m <sup>3</sup> )
Accuracy	±10% to calibration aerosol
Sensitivity	0.3 µm
Flow Rate	1.0 cfm (28.3 lpm)
Sample Time Adjustable	1 to 9,999 seconds
Hold Time Adjustable	0 to 9,999 seconds

### Electrical

Light Source	Laser Diode, 90mW, 780 nm
Power	14.8V Li-Ion self-contained battery pack for up to 8 hours typical or 4 hours continuous.
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

### Physical

Weight	13.9 lbs (6.3 kg)
Size	Height = 10.1" (25.7 cm) With Handle = 11.6" (29.5 cm) Width = 8" (20.3 cm) Depth = 9.5" (24.1 cm)

### Environmental

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

*Specifications are subject to change at any time.*

### SUPPLIED ACCESSORIES

Operation Manual  
USB Cable  
Comet Software  
Particle View Software  
Battery Charger  
Iso-kinetic Sample Probe  
Zero Particulate Filter  
Printer Paper - 2 Rolls  
Calibration Certificate

### OPTIONAL ACCESSORIES

RH & Temperature Probe  
Flow Meter  
Serial Cable  
Particle View RT Software  
ISO 21501-4 Calibration



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