

# 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.

### 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.

### 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:

- |                                    |                        |
|------------------------------------|------------------------|
| Cleanroom Monitoring/Certification | Food / Beverage        |
| Medical Device Mfg.                | Aerospace Assembly     |
| Filter Testing                     | Cosmetic Manufacturing |
| Hospitals                          |                        |

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<br>0.5µm steps from 2.0µm - 10µm                                |
| Concentration Range     | 0 – 6,000,000 particles per cubic foot (over 20M particles/<br>m3)± 10% to calibration aerosol |
| Accuracy                | 0.3 µm   |
| Sensitivity             | 0.3 µm   |
| Flow Rate               | 1.0 cfm (28.3 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   |
| Battery operation  | Up to 8 hours typical or 4 hours continuous<br>Full recharge approximately 3 hours |
| AC Adapter/Charger | Li-Ion Charger, 100 – 240 VAC @ 1.2A to 16.8 VDC @ 3.5A                            |
| 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 = 10.1" (25.7 cm) With Handle = 11.6" (29.5 cm)<br>Width = 8" (20.3 cm) Depth = 9.5" (24.1 cm) |
| Weight | 13.9 lbs (6.3 kg)   |

## ENVIRONMENTAL

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

## ACCESSORIES

|          |  |
|----------|--|
| Supplied | Operation Manual (PN BT-620-9800)<br>USB Cable (PN 500784)<br>Comet Software (PN 80248)<br>Particle View Software (PN PARTICLE VIEW)<br>Battery Charger (PN 81751)<br>Iso-kinetic Sample Probe (PN 81752)<br>Zero Particulate Filter (PN 81754)<br>Printer Paper - 2 Rolls (PN 750514) |
|----------|--|

|          |   |
|----------|---|
| Optional | RH & Temperature Probe (PN G3120)<br>Flow Meter (PN 81755)<br>Serial Cable (PN 550065)<br>Particle View RT Software<br>ISO 21501-4 Calibration (PN 80849) |
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