

# BT-620

## BENCHTOP PARTICLE COUNTER

### FEATURES:

- Integrates with Existing Facility Software
- Digital & Analog Connectivity
- 21 CFR Part 11 Compliance
- ISO21501-4 Compliant with Calibration
- Password Protected
- Audible Alarms
- Integrated Printer for Data Integrity
- Volumetric Flow Control for Improved Accuracy
- Selectable Count Units (TC, /L, CF, M3)
- User-Friendly, Menu-Driven Setup
- User-Adjustable Sample Time
- User-Assigned Location ID
- Data Storage of Over 8000 Sample Events

The BT-620 is a compact, battery-operated particle counter with six selectable size channels, a built-in printer, and housed in a portable stainless-steel case. The device's flow rate is 1.0 CFM (28.3 LPM) and is maintained with volumetric flow control for improved accuracy. This benchtop particle counter has a large, easy-to-read display, audible alarms, and an internal printer that work together to verify particulate levels. If the particle count exceeds the user's 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. Ideal for use in cleanrooms, the BT-620 was designed to easily integrate with existing building automation systems, facility software, processors, or may be used as a standalone unit.



### CONVENIENT FOR COMPLIANCE

The BT-620 particle counter is compliant with 21 CFR Part 11, designed with a password feature to prevent unauthorized changes to the user settings. The unit is also compliant with ISO 14644-1, and ISO 21501-4 with an upgraded calibration.

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### BENCHTOP PARTICLE COUNTER

#### APPLICATIONS:

- Clean-room Monitoring
- Medical Device Manufacturing
- Filter Testing
- Hospitals
- Food / Beverage
- Aerospace Assembly
- Cosmetic Manufacturing

#### USER-FRIENDLY

The BT-620 offers intuitive navigation with an ultra user-friendly interface. Each of the six channels may be individually set by the operator from 0.3 to 10 microns without requiring custom calibration. In addition to user-selectable sizes, the instrument features user-adjustable sample time, user-identifiable location IDs, and stores over 8,000 sample events. Sample history events may be viewed or printed, and downloaded to a computer using Met One's ParticleView or Comet software, or simple ASCII terminal commands. Real-time monitoring is available with an optional software upgrade to ParticleView RT. The unit easily integrates into MODBUS multi-drop networks and facility software.

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



## 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, 2.0µm 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 (28.3LPM)  
 Sample Time Adjustable Hold 1 to 9,999 seconds  
 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  
 Communications USB, Ethernet, RS-232, RS-485, MODBUS, Analog 0 - 5 VDC  
 Standards Meets ISO 21501-4; CE Certified

## 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

## SUPPLIED ACCESSORIES

- Operation Manual
- USB Cable
- Comet Software
- ParticleView Software
- Battery Charger
- Isokinetic Sample Probe
- Zero Particulate Filter
- Printer Paper - 2 Rolls
- Calibration Certificate

## OPTIONAL ACCESSORIES

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

*Specifications are subject to change at any time.*

