

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.

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	0.3 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 ³)±
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
Communications	USB, 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

 **Met One Instruments, Inc.**

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

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