

BT-637 Bench-Top Particle Counter

The Portable Solution; The Tool You Need to Monitor Your Environment or Verify Your Process'

Affordable Bench Top with High End Performance

The BT-637 is a full-featured unit suitable for continuous monitoring at a 0.1cfm flow rate. This unit is volumetric flow controlled and the internal temperature sensor will continually monitor and correct the flow. An audible alarm alerts the user when the flow rate varies more than $\pm 5\%$.

The battery or AC operated portable laser particle counter provides 8 hours operating time and less than 3 hours recharge time. This is a real-time particle counter capable of logging up to 8000 records.

The Bench-Top unit has six pre-set particle channels (0.3, 0.5, 0.7, 1.0, 2.0, & 5.0) and is user customizable so two "favorite" sizes can be readily displayed to avoid screen scrolling. A large easy to read back-lit LCD, combined with a loud programmable audible alarm make this a great fit for all applications.

User Friendly – Out of the Box Operation

A simple user interface and operation manual gets you up and running quickly making the training of your team a breeze.

Flexible Data Interface

Your communication needs are addressed. The unit comes standard with RS-232, RS-485, Analog (0-5V), USB interface, and a Memory Stick port. The BT-637 comes standard with user-friendly computer software.

Applications

- Monitoring and Verifying Cleanrooms
- Medical Device Manufacturing & Packaging
- Filter Testing
- Hospital Pharmacies & Surgery Suites
- Food / Beverage Manufacturing & Packaging
- Aerospace Assembly
- Auto & Appliance Paint Booths
- Clean Room Laundries
- Cosmetic Manufacturing & Packaging



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|---------------------------|--|--------------|
| Measurement Method | Scattered laser light | |
| Performance | | |
| Particle Size Range | 6 channels – 0.3 µm, 0.5 µm, 0.7 µm, 1.0 µm, 2.0µm and 5.0 µm | |
| Concentration Range | 0 – 3,000,000 particles per cubic foot (105,900 particle/L) | |
| Accuracy | ± 10% to calibration aerosol | |
| Sensitivity | 0.3 µm | |
| Flow Rate | 0.1 CFM (2.83 lpm) / automatic volumetric flow controlled | |
| Sample Time | Adjustable: 1 to 999 seconds | |
| Hold Time | Adjustable: 0 to 999 seconds | |
| Electrical | | |
| Light Source | Laser Diode, 35 mW, 780 nm | |
| Power | 12V Li-Ion self-contained battery pack – Provides for 8 hours continuous use. Full recharge approximately 3 hours. | |
| AC Adapter/Charger | AC to DC module, 100 – 240 VAC to 16.8 VDC @ 1.8A | |
| Communications | RS-232, RS-485, Analog (0-5V) and USB | |
| Interface | | |
| Display | 20 character x 4 line LCD | |
| Keyboard | 8 key membrane type | |
| Physical | | |
| Size | Height: 4.4" (11.3cm) Width: 6.62" (16.8cm) Depth: 6.65" (16.9cm) | |
| Weight | 5 lbs. 8 oz. = (2.28 kg) | |
| Environmental | | |
| Operating Temperature | 0° C to +50° C | |
| Storage Temperature | -20° C to +60° C | |
| Accessories | | |
| Supplied | Operation Manual, Serial Cable, USB Cable, USB Drivers CD, Comet Software, AC to DC Converter Module w/ AC Power Cord, Iso-kinetic Sample Probe, and Zero Particulate Filter | |
| Optional | RH & Temperature Probe | (MOI #G3120) |
| | Flow Meter | (MOI #9801) |
| | Portable Printer | (MOI #G3115) |