

## Air Volume Instruments



Model EBT731 (Shown with standard and optional accessories)

### EBT Balometer® Capture Hood Model EBT731

The EBT731 Balometer™ Capture Hood is a multipurpose electronic air balancing instrument used for taking accurate, direct air volume measurements at diffusers and grilles. The corresponding detachable micromanometer can be used with an array of optional probes to enable various measurement applications. Compatible with LogDat™ Mobile Remote Reader Software and capture hood stand, the EBT731 maximizes worker productivity and efficiency—saving you valuable time on the jobsite for ultimate profitability.

### Features and Benefits

- Ergonomic, lightweight design enables easy one-person operation
- Automatic sensing and display of supply or return flows saves time on the job
- Back pressure compensation ensures accurate readings at high flow rates
- Detachable digital micromanometer provides additional measurement capability
- Multiple hood size options enable measurement of different outlet dimensions
- Compatible LogDat Mobile Remote Reader and Data Logger Software option simplifies documenting of results and emailing of reports
- Capture hood stand eliminates the need for ladders (reaching diffusers up to 15 ft. (4.5 m))

### Applications

- Test and balance contractors
- Commissioning agents
- Facilities managers
- Health and safety specialists
- Ventilation system installers

*Rugged. Reliable. Professional.*





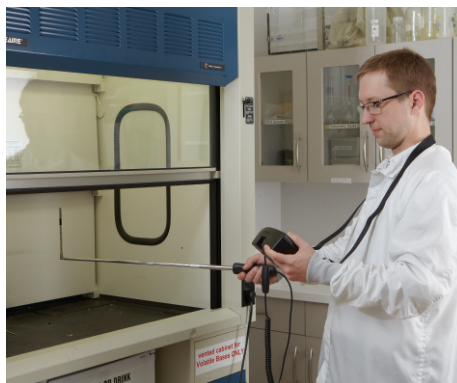
Model EBT730  
(Micromanometer shown with standard and optional accessories )

## Detachable Micromanometer Model EBT730

As standard, the EBT731 Balometer Capture Hood includes a detachable EBT730 micromanometer—one of the most advanced, versatile, and easy to use micromanometers on the market today. The EBT730 features an auto-zeroing pressure sensor that increases measurement resolution and accuracy as well as integrates an intuitive menu structure to facilitate simple operation.

## Features and Benefits

- Accurate measurement of pressure, velocity and flow complies with industry standards
- Auto-zeroing pressure sensor reduces user-steps and saves time
- Automatic density correction increases reading accuracy
- Large, backlit graphic display offers easy-to-use interface
  - Up to five simultaneous measurements
  - On-screen messages and instructions
  - Multi-language capability
- Intuitive menu structure simplifies operation
- Bluetooth bi-directional communication eases data transfer and permits use of LogDat Mobile Remote Reader and Data Logger Software for Android devices
- Optional pitot, air flow (straight pitot), temperature/relative humidity, velocity matrix, or plug and play thermoanemometer probes enables use in multiple applications



# Air Volume Instruments

Models EBT730 and EBT731

## Specifications

Micromanometer Model EBT730 and Capture Hood Model EBT731

### Velocity Range

Pitot probes	25 to 15,500 ft./min (0.125 to 78 m/s)
Air flow probe	25 to 5,000 ft./min (0.125 to 25 m/s)
Velocity matrix	25 to 2,500 ft./min (0.125 to 12.5 m/s)
Accuracy	±3% of reading ±7 ft./min (±0.04 m/s) at velocities >50 ft./min (>0.25 m/s)
Units	ft./min, m/s
Resolution	1 ft./min (0.01 m/s)

### Pressure

Differential pressure	±15 in. H <sub>2</sub> O (±3735 Pa); 150 in. H <sub>2</sub> O (37.5 kPa), maximum safe operating pressure
Absolute pressure	15 to 40 in. Hg (356 to 1016 mm Hg)
Accuracy	±2% of reading ±0.0001 in. H <sub>2</sub> O (±0.025 Pa) static and differential; ±2% of reading absolute
Units	in. H <sub>2</sub> O, in. Hg, Pa, hPa, kPa, mm Hg, cm Hg, mm H <sub>2</sub> O, cm H <sub>2</sub> O,
Resolution	0.00001 in. H <sub>2</sub> O (0.001 Pa) static and differential; 0.01 in. Hg (1 mm Hg) absolute

### Volume

Range	25 to 2,500 ft. <sup>3</sup> /min (42 to 4250 m <sup>3</sup> /h) capture hood, supply and return
Accuracy	±3% of reading ±7 ft. <sup>3</sup> /min (±12 m <sup>3</sup> /h) at flows >50 ft. <sup>3</sup> /min (>85 m <sup>3</sup> /h)
Units	ft. <sup>3</sup> /min, m <sup>3</sup> /h, m <sup>3</sup> /min, l/s
Resolution	1 ft. <sup>3</sup> /min (1 m <sup>3</sup> /h)

### RH

Range	5 to 95% RH (temperature/RH probe)
Accuracy	±3% RH
Resolution	0.1% RH

### Temperature

Sensor in base	40 to 140°F (4.4 to 60°C)
Temperature/RH probe	14 to 140°F (-10 to 60°C)
Accuracy	±0.5°F (±0.3°C)
Units	°F, °C
Resolution	0.1°F (0.1°C)

### Instrument Temperature Range

Operating	40 to 140°F (4.4 to 60°C)
Storage	-4 to 160°F (-20 to 71°C)

### Statistics

min, max, average and sum

### Data Storage

26,500 samples, time and date stamped

### Logging Interval

User selectable

### Response Time

2 to 8 seconds, differential pressure sensor

### Dimensions (micromanometer only)

7.4 in. x 4.5 in. x 2.3 in. (18.8 cm x 11.4 cm x 5.8 cm)

### Pressure Connection

¼ in. (6.35 mm) OD straight ports with barbed ends for use with ⅜ in. (4.76 mm) ID flexible tubing

### Weight with Batteries

EBT730	17 oz. (0.5 kg)
EBT731	7.4 lb. (3.4 kg)

### Power Requirements

Four AA-size cells or AC adapter

### Standard Accessories

Capture Hood Model EBT731	Micromanometer Model EBT730
<ul style="list-style-type: none"><li>• Wheeled luggage-style carrying case</li><li>• 2 ft. x 2 ft. (610 mm x 610 mm) air capture hood/frame/base</li><li>• Detachable micromanometer</li><li>• AA rechargeable NiMH batteries (qty = 4)</li><li>• Multi-country AC adapter</li><li>• 18 in. (46 cm) pitot probe</li><li>• Static pressure probes (qty = 2)</li><li>• 16 ft. (4.8 m) neoprene tubing</li><li>• Down-loading software</li><li>• USB interface cable</li><li>• NIST-traceable calibration certificate</li><li>• Product manual</li></ul>	<ul style="list-style-type: none"><li>• Micromanometer carry case</li><li>• AA rechargeable NiMH batteries (qty = 4)</li><li>• Multi-country AC adapter</li><li>• 18 in. (46 cm) pitot probe</li><li>• Static pressure probes (qty = 2)</li><li>• 16 ft. (4.8 m) neoprene tubing</li><li>• Down-loading software</li><li>• USB interface cable</li><li>• NIST-traceable calibration certificate</li><li>• Product manual</li></ul>



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## Recommended Optional Accessories

### Hood Kits

801097 (standard)	2 ft. x 2 ft. (610 mm x 610 mm)
801200	1 ft. x 4 ft. (305 mm x 1220 mm)
801201	2 ft. x 4 ft. (610 mm x 1220 mm)
801202	1 ft. x 5 ft. (305 mm x 1525 mm)
801203	3 ft. x 3 ft. (915 mm x 915 mm)
801209	16 in. x 16 in. (406 mm x 406 mm)
801210	5.25 in. x 4 ft. (133 mm x 1220 mm)
801211	28 in. x 28 in. (710 mm x 710 mm)
801212	28 in. x 50 in. (710 mm x 1270 mm)
801204 (BSC*)	8 in. x 22 in. (205 mm x 560 mm)
801205 (BSC*)	10 in. x 22 in. (255 mm x 560 mm)

\*The BSC hood kits are used to certify Class II bio-safety cabinets by taking direct in-flow measurements for NSF compliance.

### Duct Plugs

634650002	3/8 in. (9.5 mm) diameter - 1000 pieces
634650003	3/8 in. (9.5 mm) diameter - 5000 pieces

### Printer

8934	Wireless Bluetooth printer
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### LogDat™ Mobile Remote Reader Software

LogDat™ Mobile	Remote reader and data logger Android™ Software App available via Google Play™
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### Capture Hood Stand CH-Stand



Extends up to 15 ft. to take readings from ceiling diffuser without the use of a ladder. Capture hood is secured onto quad bracket and two extension pole sections can be raised to desired height and locked in place. Hood stand uses wheels for ease of movement and portability.

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### Probes

#### Airflow Probe 800187

Straight air flow probe, 18 in. (46 cm). Used to perform a duct traverse and to measure face velocity measurements. Ideal for small diameter ductwork.



#### Temperature and Humidity Probe 800220

Telescopic temperature and humidity probe, extends 9-39 in. (230-990 mm). Used for measuring inside of duct work. Can be inserted into a standard 5/16 in. (8 mm) diameter hole typically use for pitot traverses with the ability to calculate wet bulb and dewpoint temperatures.



#### Thermoanemometer Air Velocity Probes

##### Model 960

Straight air velocity and temperature probe

##### Model 962

Articulating air velocity and temperature probe

##### Model 964

Straight air velocity, temperature and humidity probe with ability to calculate wet bulb and dewpoint temperature

##### Model 966

Articulating air velocity, temperature and humidity probe with ability to calculate wet bulb and dewpoint temperature



#### Velocity Matrix 801090

16 point Telescopic Velocity Matrix. Used for measuring face velocities of HEPA filters, chemical fume hood, laminar flow benches, filter banks, kitchen exhausts and other applications where a large surface area needs to be measured. Grid covers one square foot area and averages the air velocity while minimizing the effects of turbulence to produce a stable reading.



#### Pitot Probes

634634000	5/16-12 in. (8 mm – 30 cm) diameter
634634001	5/16-18 in. (8 mm – 46 cm) diameter
634634002	5/16-24 in. (8 mm – 61 cm) diameter
634634003	5/16-36 in. (8 mm – 91 cm) diameter
634634005	5/16-60 in. (8 mm – 152 cm) diameter

**Alnor Products, TSI Incorporated** - 500 Cardigan Road Shoreview, MN 55126-3996 USA  
USA Tel: +1 800 424 7427 E-mail: customerservice@alnor.com



Contact your local Alnor Distributor or visit our website [www.alnor.com](http://www.alnor.com) for more detailed specifications.