EBT BALOMETER® CAPTURE HOOD MODEL EBT731

AIR VOLUME INSTRUMENTS

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.



Model EBT731-STA Bundle shown.

Applications:

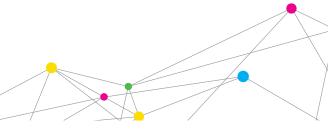
- + Test and balance contractors
- + Commissioning agents
- + Facilities managers
- + Health and safety specialists
- + Ventilation system installers

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)







DETACHABLE MICROMANOMETER MODEL EBT730

AIR VOLUME INSTRUMENTS

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.

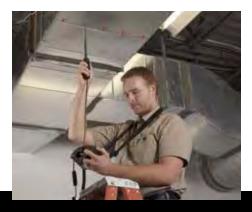


Model EBT730 (Micromanometer shown with standard and optional accessories)

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 for easy operation
- + Integrated Log-Tchebycheff duct traverse mapping application simplifies calculations
- + 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







Plug and play thermoanemometer probes enables use in multiple applications.



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 ₂ O (±3735 Pa); 150 in. H ₂ 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 ₂ 0 (±0.025 Pa) static and differential; ±2% of reading absolute	
Units	in. $\rm H_2O$, in. $\rm Hg$, $\rm Pa$, $\rm hPa$, $\rm kPa$, $\rm mm$ $\rm Hg$, $\rm cm$ $\rm Hg$, $\rm mm$ $\rm H_2O$, $\rm cm$ $\rm H_2O$	
Resolution	0.00001 in. $\rm H_2O$ (0.001 Pa) static and differential; 0.01 in. Hg (1 mm Hg) absolute	
Volume		
Range	25 to 2,500 ft. ³ /min (42 to 4250 m ³ /h) capture hood, supply and return	
Accuracy	±3% of reading ±7 ft.³/min (±12 m³/h) at flows >50 ft.³/min (>85 m³/h)	
Units	ft.³/min, m³/h, m³/min, l/s	
Resolution	1 ft.³/min (1 m³/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 Temperati	ure 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 s	max, average and sum		
Data Storage	age		
25,500 samples, time ar	,500 samples, time and date stamped		
Logging Interval	ogging Interval		
User selectable	ser selectable		
Response Time	esponse Time		
2 to 8 seconds, different	8 seconds, differential pressure sensor		
Power Requirements	Power Requirements		
Four AA-size cells or AC	Four AA-size cells or AC adapter		
Physical Characteristic	Physical Characteristics		
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)		
Weight with Batteries	EBT730 17 oz. (0.5 kg) EBT731 7.4 lb. (3.4 kg)		
Pressure Connection	1/4 in. (6.35 mm) OD straight ports with barbed ends for use with 3/16 in. (4.76 mm) ID flexible tubing		

Capture Hood Model EBT731	Micromanometer Model EBT730
+ Wheeled luggage-style carrying case + 2 ft. x 2 ft. (610 mm x 610 mm) air capture hood/frame/base + Detachable micromanometer + AA rechargeable NiMH batteries (qty = 4) + Multi-country AC adapter + 18 in. (46 cm) pitot probe + Static pressure probes (qty = 2) + 16 ft. (4.8 m) neoprene tubing + Down-loading software + USB interface cable + NIST-traceable calibration certificate + Product manual	+ Micromanometer carry case + AA rechargeable NiMH batteries (qty = 4) + Multi-country AC adapter + 18 in. (46 cm) pitot probe + Static pressure probes (qty = 2) + 16 ft. (4.8 m) neoprene tubing + Down-loading software + USB interface cable + NIST-traceable calibration certificate + Product manual



SPECIFICATIONS

EBT BALOMETER® MODEL EBT731 DETACHABLE MICROMANOMETER MODEL EBT730

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)	
801206	1 ft. x 4 ft. (305 mm x 1,220 mm) and 2 ft. x 4 ft. (610 mm x 1,220 mm)	
801207	1 ft. x 5 ft. (305 mm x 1,525 mm) and 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)	
80215	1 ft. x 3 ft. (305 mm x 915 mm) 8 in. x 22 in. (205 mm x 560 mm)	
801204 (BSC*)		
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

LogDat™ Mobile Software

LogDat Mobile

Remote reader and data logger Android™ Software App available via Google Play



Capture Hood Stand

CH-Stand

Extends up to 15 ft. (4.5 m with EBT731 attached) 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.



EBT731 Bundle

EBT731-STA Bundle

Includes: EBT 731 Capture Hood, Capture Hood Stand, Smart Tablet* loaded with LogDat™ Mobile App and instruction videos

TSI has the discretion to change the brand and model of tablet at any time.

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



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 1 ft.2 (0.09 m2) and averages the air velocity while minimizing the effects of turbulence to produce a stale 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

Specifications subject to change without notice.

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