



EASTERN INSTRUMENTS



Gas Flow Measurement Product Line



Eastern Instruments offers a complete line of patented air and gas flow measurement systems based on more than 35 years of pitot development and product improvements. EI's technical director, Bob Brandt, is widely regarded as a first rank expert on the subject of airflow measurement and pitot tube design.

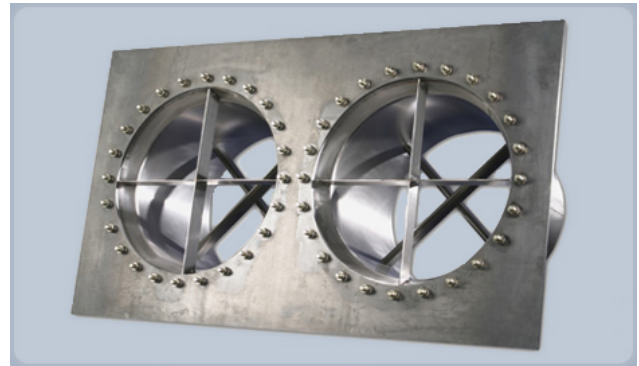


VAP³ Pitot: Velocity Averaging and Parallel Plate proprietary design that allows for precise air flow measurement in process and power applications.

VAP³/SA: Clean air applications

VAP³/PA: Particulate-laden applications

DPS: Intelligent transmitter



High Beta[®] Flow Conditioner: reduces turbulent, reverse and cyclonic flow patterns in complex duct systems in both process and power applications where absolute accuracy is required.

HBP: High Beta[®] for process applications

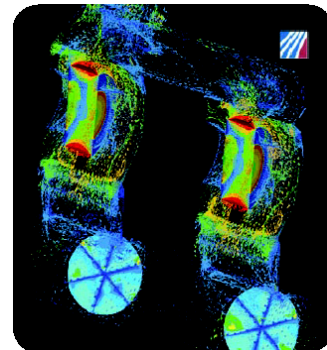
HBE: High Beta[®] for engineered applications

Features and Benefits

- **Velocity Averaging Parallel Plate Design:** Multiple differential pressure-sensing ports, allow velocity averaging throughout the full traverse of the duct
- **VAP³/PA Resists Airborne Particulate Plugging:** No purge system is required
- **Hardened, Slick Surface:** Teflon[®] hard anodized 6063 aluminum extrusion
- **Integrated Temperature Element:** Reduces in-duct obstructions; (RTS) Remote Temperature Sensor also available

- **Incorporates VAP³ Pitots:** Optimizes accuracy
- **Integrated Flow Measurement:** Low-cost high-speed in-duct installations
- **Integral Straightening Vanes:** Stops cyclonic flow
- **High Beta[®] Ratio:** Low unrecovered pressure drop
- **Profiles Flow for Measurement:** Enables insertion near obstructions
- **Constant Diameter in Measurement Area:** Accuracy/repeatability
- **Rugged:** Long life-no maintenance

Eastern Instruments offers engineered solutions such as Heated Pitots, VAP³/XL Pitots (for ducts up to 240"), and much more. We also offer Computational Fluid Dynamics (CFD) modeling to optimize ductwork and placement of the gas flow measurement system. Flow profiles, temperature stratification, and duct modifications can be modeled to improve measurement accuracy and process performance.



Contact Eastern Instruments for your air flow measurement solutions