

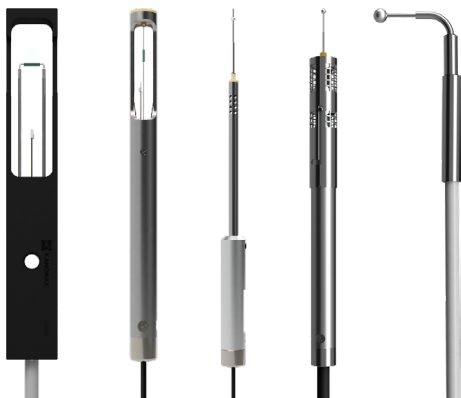


KANOMAX
The Ultimate Measurements

HOT-WIRE ANEMOMETER MEASURING SOLUTIONS

Kanomax Instruments Optimize Your Airflow and Temperature Control Challenges

Unlock precision airflow control with our advanced Hot-Wire Anemometer Measuring Solutions—engineered for the most demanding industrial environments. Whether you're optimizing airflow in carbon fiber and composite curing, maintaining precise thermal profiles in reflow ovens for PCB manufacturing, or ensuring uniform airflow in environmental test chambers and thermal chambers, our instruments deliver the accuracy and responsiveness your process depends on. From monitoring ventilation in EV battery packs to fine-tuning airflow in cable coating, fiber extrusion, and incinerator exhaust systems, our hot-wire anemometers provide the real-time, high-resolution data required for superior quality, safety, and efficiency across critical manufacturing and testing applications.



Versatile Hot-Wire Anemometer Technology

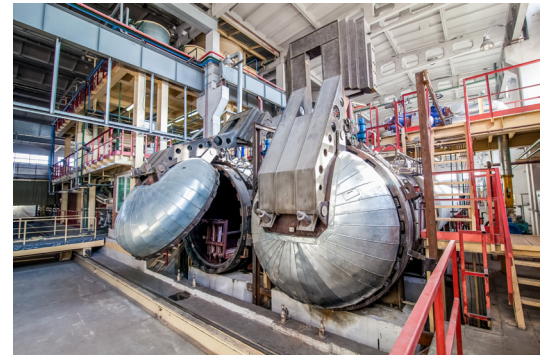
- ⚙ Up to +/-2% Accuracy
- ⚙ Small sensor sizes
- ⚙ Omni-directional sensitivity
- ⚙ Temperature compensation technology
- ⚙ Works well for Minus degree to 1000F degree environments
- ⚙ Repeatable result
- ⚙ ISO17025 accredited calibration

Carbon Fiber and Composite Curing

Industry Focus: Aerospace, Automotive, Advanced Materials Manufacturing

Process Type: High-temperature oven or autoclave-based resin curing of composite parts

Carbon fiber and other advanced composites are made by embedding woven fiber material into a resin system. To solidify the structure and achieve the desired strength and performance, the material undergoes a curing process in high-temperature environments such as ovens or autoclaves. During curing, heat and pressure are applied to harden the resin and ensure it bonds evenly to the fiber matrix.

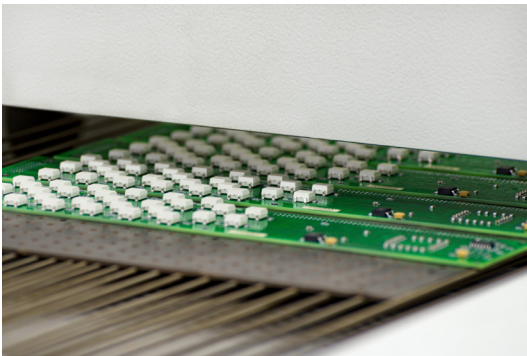


Why Airflow Control Matters in Composite Curing:

Poor airflow can lead to temperature gradients, warping, weak bonding, or delamination. Consistent airflow ensures that all regions of the composite part cure at the same rate and temperature. Without it, you risk developing weak spots, surface defects, or internal stresses.

Kanomax Airflow Measuring Solutions:

The High Temperature Multi-Channel Anemometer Model 1596 + Probe is designed to measure all critical points to ensure even curing.



Reflow Oven Control for PCB Manufacturing

Industry Focus: Electronics / SMT (Surface Mount Technology) Assembly

Process Type: Thermal soldering using controlled airflow and heating zones

In reflow soldering, airflow is just as important as temperature. It ensures solder paste melts and solidifies properly across every PCB. Poor airflow leads to cold solder joints, uneven heating, and defects.

Why Airflow Control Matters in PCB Manufacturing:

Consistent airflow delivers heat evenly, protects sensitive components, and supports repeatable, high-speed production.

Kanomax Airflow Measuring Solutions:

The 1580/1590 Multi-Channel Anemometers help engineers map airflow across oven zones to maintain uniform profiles. The 1595/1596 High-Temp Multi-Channel Anemomaster is ideal for real-time airflow checks inside high-temperature ovens during actual operation.

Thermal Chamber & Environmental Test Chambers

Industry Focus: QA/QC Labs, Aerospace, Electronics, Automotive

Process Type: Controlled environmental testing (temperature, humidity, and airflow regulation)

Airflow is essential for ensuring uniform conditions in thermal chambers. Without it, temperature variations can lead to inaccurate test results and inconsistent product validation.

Why Airflow Control Matters in Thermal & Environmental Test Chambers:

Consistent airflow delivers heat evenly, protects sensitive components, and supports repeatable, high-speed production.

Kanomax Airflow Measuring Solutions:

The 1580/1590 Multi-Channel Anemometers help engineers map airflow across oven zones to maintain uniform profiles. The 1595/1596 High-Temp Multi-Channel Anemomaster is ideal for real-time airflow checks inside high-temperature ovens during actual operation.



Battery Pack Ventilation & Thermal Management

Industry Focus: Electric Vehicles (EV), Energy Storage Systems, Battery R&D

Process Type: Air-based thermal regulation for lithium-ion and advanced battery modules.

As modern electric vehicles and energy storage systems become more widespread, effective battery thermal management is critical for both performance and safety.

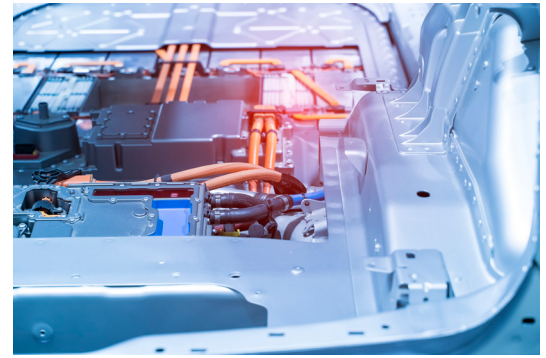
Battery thermal management systems use a combination of forced air, liquid cooling, or conductive cooling plates to maintain a stable operating temperature. Many battery designs, particularly in cost-sensitive or space-limited environments, rely heavily on airflow-based cooling systems due to their simplicity and efficiency.

Why Airflow Control Matters in Battery Pack Ventilation & Thermal Management:

Proper airflow ensures that every battery cell receives uniform cooling. Without it, hotspots can form areas where some cells run significantly hotter than others. Airflow monitoring ensures the cooling system is functioning as designed.

Kanomax Airflow Measuring Solutions:

Multi-Channel Anemometer + Micro-sized Probe are ideal for measuring each battery cell.



Cable Coating & Fiber Extrusion

Industry Focus: Medical Devices, Telecommunications, Industrial Cabling

Process Type: High-speed extrusion and controlled air-based cooling of coated cables and fibers



Extrusion is a core process in high-performance cable production, whether for medical catheters, fiber optics, telecom wiring, or industrial control systems. During this stage, molten plastic or polymer is forced around a conductor at high speeds. Once coated, the cable must be rapidly cooled in a quenching zone, which often uses air to solidify the coating and stabilize the shape.

Why Airflow Control Matters in Cable Coating & Fiber Extrusion:

If the airflow in this cooling zone is inconsistent or turbulent, the freshly coated cable can develop warps, ripples, voids, or surface imperfections. These seemingly minor defects can compromise insulation integrity, create product failures, or result in rejected batches. Consistent, uniform airflow is critical to ensure precision, coating strength, and long-term reliability.

Kanomax Airflow Measuring Solutions:

The Kanomax High Temperature Anemometer - Model 6162 delivers accurate airflow readings during the cooling process.

Incinerator Exhaust Management

Industry Focus: Waste Management, Environmental Compliance, Hazardous Materials

Process Type: Controlled combustion of waste with emissions management and stack monitoring

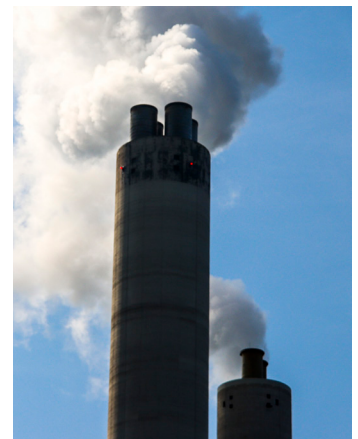
Incinerators are critical to the safe disposal of hazardous, medical, and municipal waste. These systems burn waste at high temperatures to reduce volume and neutralize harmful substances. But efficient and compliant incineration requires more than just heat; it depends heavily on airflow. Proper control of combustion and exhaust air determines how completely the waste is destroyed, how much fuel is consumed, and how clean the emissions are.

Why Airflow Control Matters in Incinerator Exhaust Management:

Airflow is the invisible variable that governs combustion quality, emissions output, and energy efficiency. With the right airflow balance, the incinerator can achieve complete combustion, converting waste into harmless byproducts like CO₂ and water vapor.

Kanomax Airflow Measuring Solutions:

The Kanomax High Temperature Anemometer – Model 6162 is an effective solution for measuring airflow in incinerator exhausts due to its rugged design and ability to withstand extreme temperatures up to 900°C while delivering precise, real-time airflow velocity data.





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Kanomax Anemometer Solutions Characteristics



Multi-channel Anemomaster

- Up to 144 channels
- 15 different probe choices

Applications:

- Multi-point air measurements
- Air distribution testing
- Data center thermal management



Airflow Transducer

- 15 different probes
- Easy to integrate with PLC
- Digital & Analog outputs

Applications:

- Airflow monitor in the process machines
- Indoor occupant comfort testing



Multi-channel High Temperature Anemomaster

- Up to 72 channels
- Air velocity & Temperature simultaneous measurements

Applications:

- Air distribution check
- Cooling & Drying processes



High Temp Anemomaster

- 3% accuracy of air velocity
- Up to 500C temperature environments

Applications:

- Drying process control
- Airflow testing for industrial ovens



Climomaster Handheld Anemometer

- 2 % accuracy of air velocity
- 8 different probe choices

Applications:

- Fume hood & BSC testing
- Cleanroom filter testing



KANOMAX USA, INC.

219 US HWY 206

ANDOVER, NJ 07821 USA

TEL: 973-786-6386

FAX: 973-786-7586

E-MAIL: SALES@KANOMAX-USA.COM

URL: WWW.KANOMAX-USA.COM

DISTRIBUTED BY:

