

# AIRFLOW WING (AFW)

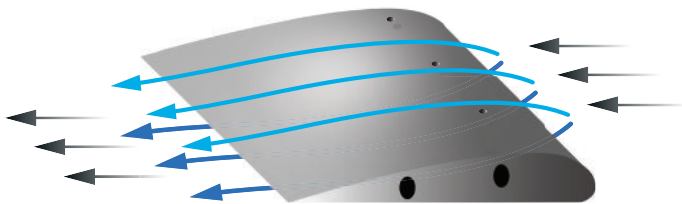


# AIRFLOW WING

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## PRODUCT OVERVIEW

The AFW uses CRC's patented airfoil probe design for precise, repeatable airflow measurement with passive, maintenance-free operation. Leveraging Bernoulli's principle, it resists airborne contaminants and includes a touchscreen transmitter for easy setup, commissioning, and real-time performance monitoring.



## KEY FEATURES

### AFW TRANSMITTER

- **Multi-Station Capability:** Supports up to four independent airflow measurement stations, reducing hardware and network demands.
- **Efficient Commissioning:** Intuitive touchscreen enables fast setup without external software or tools.
- **Integrated Diagnostics:** Onboard I/O and BACnet® diagnostics simplify configuration, troubleshooting, and system verification.
- **Versatile Communication:** Provides scalable analog outputs and BACnet® MS/TP, configurable via touchscreen.
- **Intuitive Interface:** High-resolution touchscreen delivers real-time airflow data for up to four stations, ensuring clear monitoring and operation.

### AFW PATENTED WING

- **Patented Airfoil Design:** CRC's patented design generates a precise pressure differential for accurate, natural airflow measurement.
- **High Accuracy & Maintenance-Free:** Silicon-based, dead-ended sensing prevents contamination, ensuring long-term reliability without maintenance.
- **Debris-Resistant:** Indirect sensing, positioned outside the airflow path, prevents clogging common in pitot and thermal systems.
- **Exceptional Stability:** Provides consistent, repeatable measurements across varying airflow conditions.
- **Contaminant-Resistant:** Static pressure sensing, oriented perpendicular to airflow, eliminates lint, dust, and dirt buildup.
- **Wide Operating Range:** Delivers precise airflow feedback across both high-volume and low-flow applications.

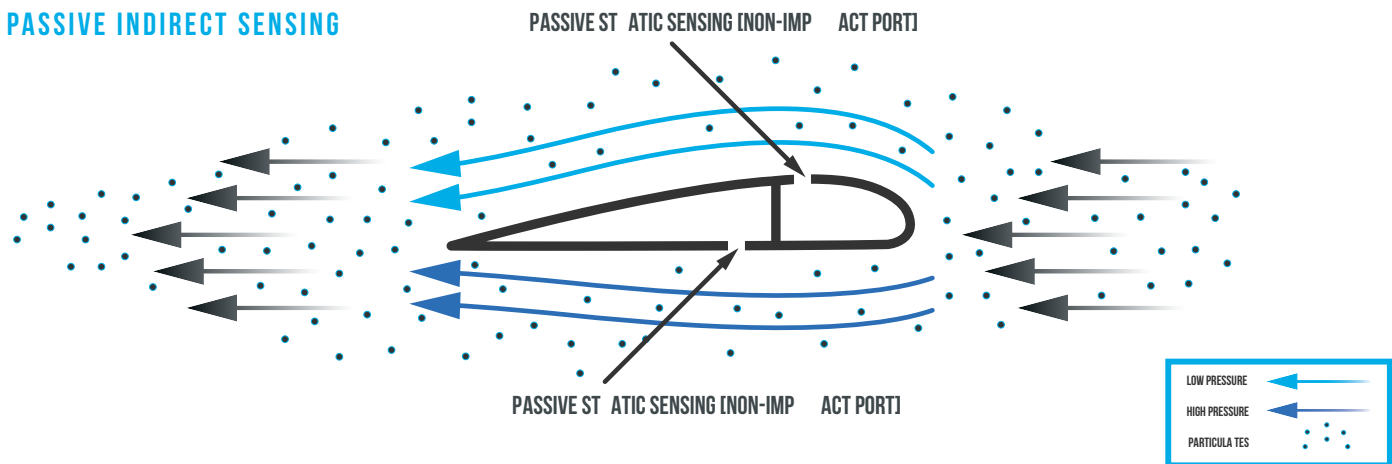
### APPLICATIONS

- Outside Air Intake
- Exhaust Air
- Return Air
- Fan Inlet
- Small Ducts
- Large Ducts
- Anywhere maintenance free precision airflow measurement is required

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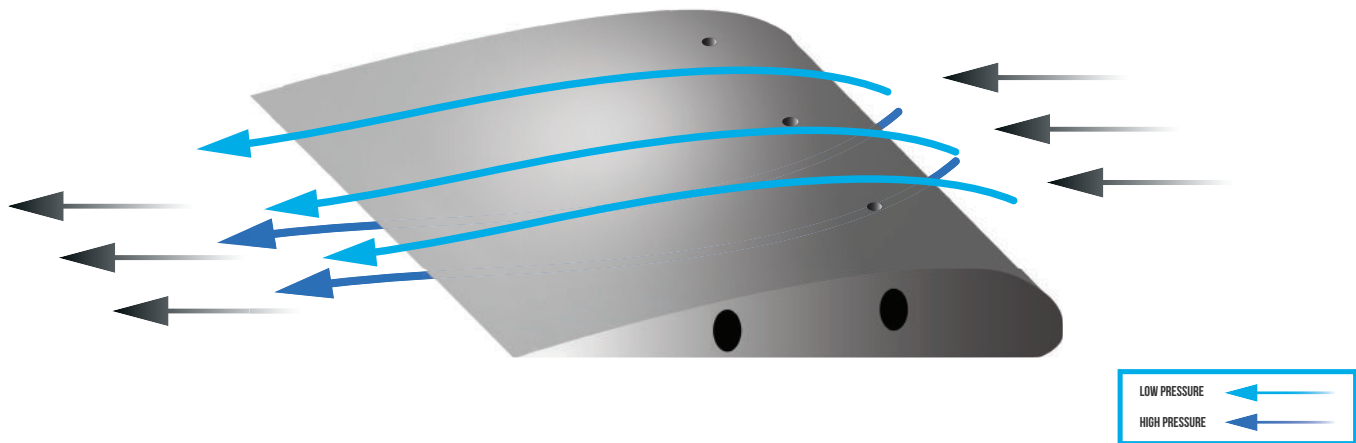
CRC's patented airfoil probe, engineered around Bernoulli's principle, generates a precise pressure differential for highly accurate and natural airflow measurement. Its passive, indirect sensing technology ensures reliable performance even in demanding environments, including outside air, exhaust air, and supply air applications. The AFW system is designed for quick, straight-forward installation and delivers true, maintenance-free airflow measurement, maintaining long-term accuracy and optimal performance. Experience how the AFW provides dependable and precise airflow measurement with exceptional ease.

## PASSIVE INDIRECT SENSING



Engineered to be maintenance free CRC's patented airflow WING, utilizes passive, indirect sensing technology to measure differential pressure across the upper and lower airfoil surfaces. By eliminating inline contact with airflow contaminants, this design ensures precise, repeatable, and verified airflow measurement, delivering consistent performance even in the most demanding environments.

## AIRFLOW WING DESIGN



Engineered with sensing ports positioned perpendicular to the airflow, the CRC's passive indirect sensing technology overcomes the limitations of thermal and pitot systems, which require critical sensing elements to be directly inline with the airstream. This patented design minimizes exposure to airborne contaminants, ensuring long-term reliability and eliminating the clogging and fouling issues that commonly cause failures in other technologies.

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