

Air Monitor's New DCAS Optimizes Data Center Aisle Pressurization Performance

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Largo, FL - Air Monitor is proud to announce the launch of the DCAS - Data Center Aisle Sentry, an ultra-high accuracy differential pressure measurement device designed to optimize aisle pressurization in data centers. Featuring advanced dual-channel transducer technology, the DCAS provides unmatched accuracy at near-zero differential pressure conditions, ensuring precise airflow control and energy efficiency in mission-critical facilities.

Why Aisle Pressurization Matters in Data Centers

Maintaining proper hot and cold aisle pressurization is essential for data center efficiency. By precisely controlling the pressure differential, facilities can introduce cold air and remove hot air effectively, preventing thermal inefficiencies, hot spots, and equipment failures. However, traditional pressure transmitters with a limited 10:1 turndown ratio often struggle to provide accurate readings at low pressure levels, leading to poor airflow control and increased cooling costs.

How The DCAS Optimizes Aisle Pressurization

The DCAS is engineered to overcome these challenges with patented dual-stacked transducer technology, ensuring superior accuracy across the entire 40:1 turndown ratio. Unlike conventional transmitters, the DCAS maintains precision at critical low-pressure levels, preventing air mixing between aisles and enhancing cooling system performance.

"The DCAS was developed to address the increasing demand for ultra-precise airflow control in modern mission-critical data centers. Engineered for exceptional accuracy at near-zero pressure, it empowers building automation systems to increase responsiveness and optimize cooling efficiency." - Product Manager, Kenji Nulman

Key Benefits of the DCAS:

- ✓ Extended Flow Range Capability – Dual transducer technology maximizes the turndown ratio, ensuring optimal performance even at near-zero differential pressures.
- ✓ Superior Resolution – The graphic display interface shows pressure resolution down to the hundred-thousandths for precise monitoring.
- ✓ Unmatched Accuracy – Provides $\pm 0.75\%$ of reading measurement accuracy within a 40:1 pressure turndown ratio, significantly improving control.
- ✓ Paired with Static Air Probes – The system integrates Air Monitor Static Air Probes (S.A.P.) which are unimpacted by airflows up to 1,000 FPM.

Managing Aisle Airflow Control in Data Centers

With the launch of the DCAS - Data Center Aisle Sentry, Air Monitor sets a new standard for precision pressure measurement and airflow optimization in mission-critical environments. By providing unparalleled accuracy and reliability, the DCAS will help data centers reduce energy costs, prevent equipment failures, and maximize operational efficiency.

For more information on the DCAS visit our [website](#) . For pricing & availability, [contact your local representative](#).

Air Monitor is a leading provider of airflow measurement solutions for a wide range of industries. With commitment to innovation and accuracy, Air Monitor Corporation empowers professionals to achieve superior building performance.



DCAS
Data Center Aisle Sentry



S.A.P. - Static Air Probe