

# Features and Benefits

## **FAST RESPONSE TIME\***

Allows a customer's application to respond quickly to airflow change, important in critical medical (e.g., anesthesia) and industrial (e.g., fume hood) applications.

## **WIDE RANGE OF AIRFLOWS\***

Zephyr measures mass flow at standard flow ranges of  $\pm 50$ ,  $\pm 100$ ,  $\pm 200$ ,  $\pm 400$  or  $\pm 750$  SCCM, or custom flow ranges, increasing the options for integrating the sensor into the application.

## **CUSTOMIZABLE FLOW RANGES AND CONFIGURABLE PACKAGE STYLES\***

Meet specific end-user needs.

## **FULL CALIBRATION AND TEMPERATURE COMPENSATION**

Typically allow customer to remove additional components associated with signal conditioning from the PCB, reducing PCB size as well as costs often associated with those components (e.g., acquisition, inventory, assembly).

## **LINEAR OUTPUT\***

Provides more intuitive sensor signal than the raw output of basic airflow sensors, which can help reduce production costs, design, and implementation time.

## **LOW PRESSURE DROP\***

Typically improves patient comfort in medical applications, and reduces noise and system wear on other components such as motors and pumps.

## **0.049 %FS RESOLUTION**

Increases ability to sense small airflow changes, allowing customers to more precisely control their application.

## **LOW 3.3 VDC OPERATING VOLTAGE OPTION AND LOW POWER CONSUMPTION**

Allow for use in battery-driven and other portable applications.

## **SMALL SIZE**

Occupies less space on PCB, allowing easier fit and potentially reducing production costs; PCB size may also be reduced for easier fit into space-constrained applications.

## **ROHS-COMPLIANT MATERIALS**

Meet Directive 2002/95/EC.

# Potential Applications



## MEDICAL

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- ANESTHESIA DELIVERY MACHINES**
- VENTRICULAR ASSIST DEVICES (HEART PUMPS)**
- NEBULIZERS**
- OXYGEN CONCENTRATORS**
- PATIENT MONITORING SYSTEMS (RESPIRATORY MONITORING)**
- SLEEP APNEA MACHINES**
- SPIROMETERS**
- VENTILATORS**
- LAPAROSCOPY**



## INDUSTRIAL

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- AIR-TO-FUEL RATIO**
- FUEL CELLS**
- GAS LEAK DETECTION**
- VAV SYSTEM ON HVAC SYSTEMS**
- GAS METERS**
- HVAC FILTERS**

