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 ±50, ±100 ±200, ±400 or ±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.

*Competitive Differentiator

Potential Applications

MEDICAL

ANESTHESIA DELIVERY MACHINES

VENTRICULAR ASSIST DEVICES (HEART PUMPS)

NEBULIZERS

OXYGEN CONCENTRATORS

PATIENT MONITORING SYSTEMS (RESPIRATORY MONITORING)

SLEEP APNEA MACHINES

SPIROMETERS

VENTILATORS

LAPAROSCOPY

INDUSTRIAL

AIR-TO-FUEL RATIO

FUEL CELLS

GAS LEAK DETECTION

VAV SYSTEM ON HVAC SYSTEMS

GAS METERS

HVAC FILTERS