

DIFFERENTIAL PRESSURE MONITORING SOLUTIONS

Aretas Sensor Networks

HOW IT WORKS



MONITOR

Our monitors gather and transmit data to the communication bridge



GATHER DATA

Data from the communication bridge is sent securely to your private online data center account



ANALYZE & REPORT

Your data is archived, analyzed and reported in many useful ways



24/7 ACCESS

Decision-making is easy from any computer or smart device

SENSOR OPTIONS

CO	Carbon Monoxide
CO2	Carbon Dioxide
dB	Noise
NO2	Nitrogen Dioxide
PM	Particulate Matter
O3	Ozone
TRH-F	Freezer / Fridge
VOC	Volatile Organic Compounds

More options available

Overview

The Aretas Differential Pressure (DP) monitoring system is an easy to install, wireless system that displays data online and sends customizable alerts via text message or email. Secure cloud based data allows decision-makers and maintenance staff to monitor DP levels from anywhere at anytime.

The DP monitor has a detection range of -50 to +50 Pascal. Its functionality can be expanded to include sensors such as CO, NO2, O3, and VOC. The dB detector comes standard with Temperature and Relative Humidity sensors offering more in depth data as well potential energy-saving and money-saving opportunities.

Why monitor differential pressure?

Differential pressure is used in many industrial manufacturing and healthcare applications. Operating Rooms, Isolation Rooms and Clean Rooms require accurate differential pressure monitoring to ensure they meet specific needs. As an example clean rooms are setup to eliminate fine particulate matter and other contaminants such as microorganisms or toxins. To provide a controlled physical environment monitoring for temperature, humidity and pressure are required.

- Real-time remote wireless monitoring, 24/7, worldwide.
- Customizable alerts via text message and/or email.
- Access to live and historical data to track trends and make comparisons.
- Ability to add other monitoring systems and/or additional sensors, as needed.
- Simple, sturdy case designed to last.

Product Specifications



Wireless DP Monitor Specifications

- Range: -50 to +50 Pa
- Resolution: 1 Pa
- Response time: 1 to 2 ms
- Accuracy: ± 0.1 Pa
- Operating temperature: -20 to 80 °C
- Operating humidity: 0 to 85% RH

Electrical Characteristics

Voltage input:

- 6xAA or 5V USB Mini-B

Connectivity:

- Digimesh + P2P 900MHz/868MHz long range
- Zigbee

Sensor polling rate: 2 min

Features

- Battery-powered option with customizable reporting intervals and low power modes that enable long-term battery-powered operation.
- Wireless communication between one or more monitors and the communication bridge or PC-based data collection.
- 24/7 remote monitoring and threshold-based alerting.
- With the optional Internet-based communication bridge, you can access data online from anywhere in the world.
- Data can be exported to geographic information systems or other custom mapping systems.
- Data can also be exported from our large scale data warehouse, via API, to be analyzed by other programs.
- High resistance to radio frequency and electrostatic field noise.