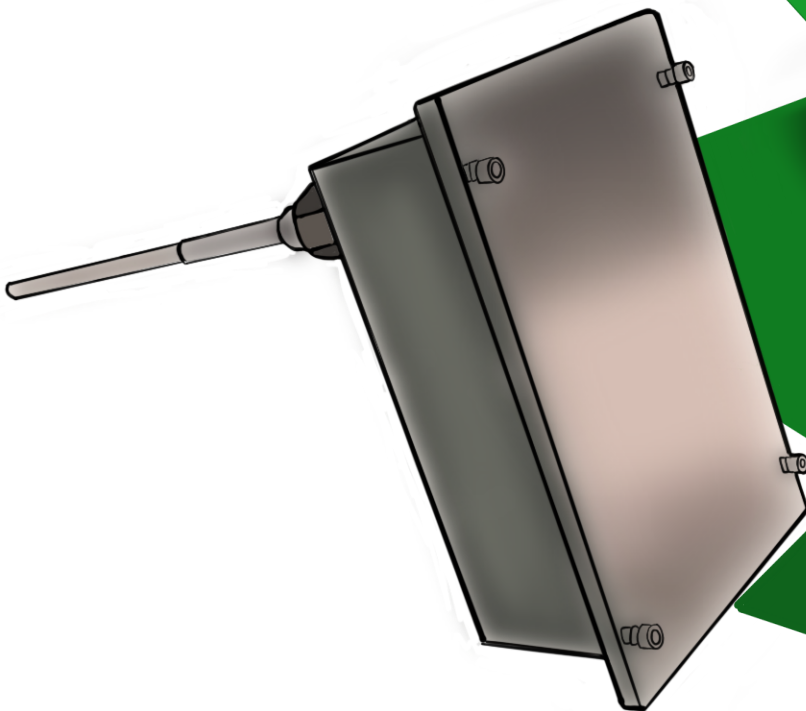




Scout Sensor

Dynamic Induction Dust Monitor

**IF THE QUESTION IS PARTICULATE,
THE ANSWER IS B3 SYSTEMS.**



Baghouse
Leak
Detector

Dust
Monitoring

PM
Monitoring

Built-in Rolling
Averaging

**MEETS ALL EPA
MACT REQUIREMENTS**

SIMPLE INSTALLATION

INTEGRATES DIRECTLY INTO PLANT CONTROL SYSTEM

SIMULTANEOUS ANALOG OUTPUT SIGNALS, 4-20 MA & 0-10 VDC

**BUILT-IN ROLLING AVERAGE CALCULATIONS
NO NEED FOR ADDITIONAL PROGRAMMING**

Scout Sensor

Dynamic Induction Dust Monitor

SENSOR OVERVIEW

B3 Systems' Scout Dust Sensor is designed to provide the most advanced dust sensing technology employed by any sensor on the market with only an analog output. The Scout can be completely configured using the on-board dip switches. This includes setting an rolling average period as well as the analog scaling. Affordability, increased productivity of your operation and reduced maintenance cost are just a few of the core competencies of the system.

INDUSTRIES WE WORK WITH:

Cement, Power, Waste Incineration, Food Industry, Pharmaceutical, Foundries, Chemical Processing, Fertilizers, Tobacco, Animal Food Processing, Metallurgical, Wood Processing

OUR TECHNOLOGY

B3 Systems, Inc. utilizes Dynamic Induction™ (DI) sensing technology. Dynamic Induction monitors the alternating current (AC) generated by the dust particles in an air stream and not the direct current (DC). Dynamic Induction utilizes the most advanced signal processing and filtering to eliminate outside noise and only include the portion of the signal related to the Dust.

Four (4) independent and dynamic ranges within the sensor are provided to create the maximum resolution and accuracy in every sensor and the largest dynamic operating range of any sensor on the market.

Each Scout sensor is capable of calculating a rolling average dust reading and continuously transmitting the results through two analog output signals (4-20mA & 0-10VDC).

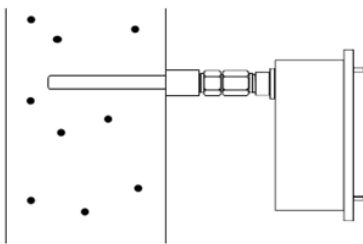


Figure 1.1: Stack View of Sensor Installation

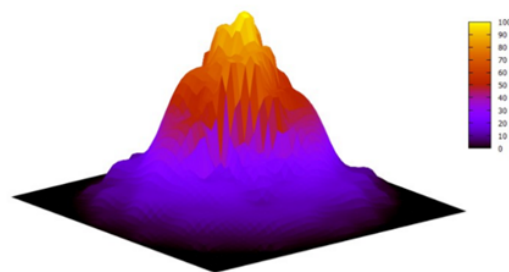


Figure 1.2: Signal Response looking directly at the end of the rod. Data collected from internal Stratification Testing (recorded, 2019).

Represents ability to detect particles ~12" to 18" either side of the rod, providing a larger and more representative monitoring zone than single-point or cross-stack technologies.

CUSTOM APPLICATIONS WELCOMED

SCOUT DUST SENSORS OUTPUT BOTH 4-20mA & 0-10 VDC.