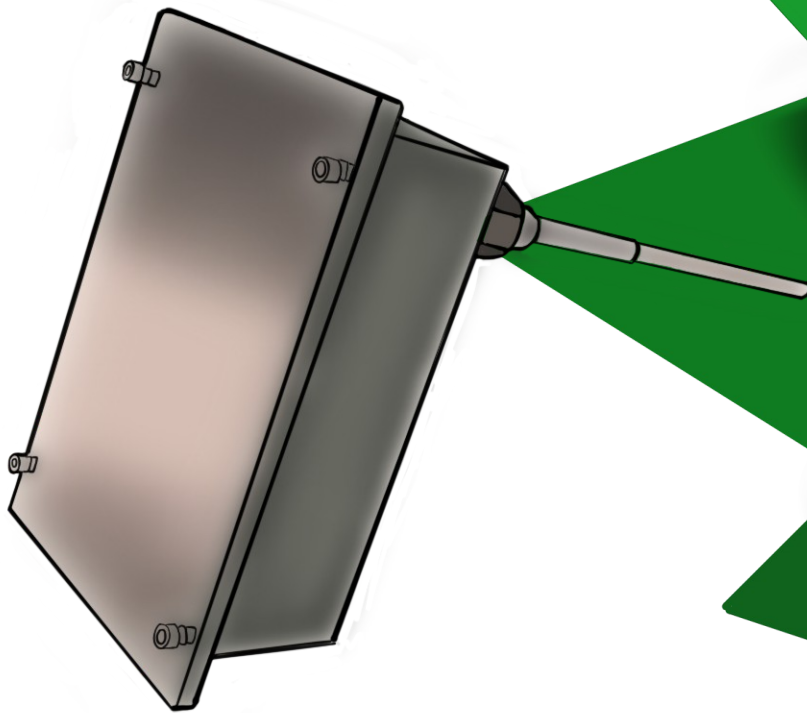




# Titan™ Sensor

Dynamic Induction Dust Monitor

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



Baghouse  
Leak  
Detector

Dust  
Monitoring

PM  
Monitoring

Automated  
QA Checks

Modbus  
RTU/TCP

Built-in Rolling  
Averaging &  
Alarming

**US EPA MACT Compliant**

**INTEGRATES DIRECTLY INTO PLANT PLC/DCS**

**COMPLETELY DIGITAL READINGS VIA MODBUS TCP/RTU**

**PATENTED ROD ISOLATION CHECK**

**BUILT-IN ROLLING AVERAGE CALCULATIONS**

**INSTANTANEOUS DUST AND 3 ROLLING AVERAGE CHANNELS WITH  
ALARMING FUNCTIONS, INCLUDING DELAYS, ON ALL DUST CHANNELS**

# Titan™ Sensor

## Dynamic Induction Dust Monitor

### SENSOR OVERVIEW

B3 Systems' Titan™ Dust Sensor was designed to provide the most advanced digital communications employed by any sensor on the market. Affordability, increased productivity of your operation and reduced maintenance cost are just a few of the core competencies of the system. B3 Systems' sensor was specifically developed to meet and exceed the requirements of U.S. EPA's current Fabric Filter Guidance Document.

### INDUSTRIES WE WORK WITH:

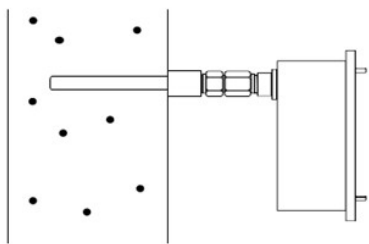
Cement, Power, Waste Incineration, Food Industry, Pharmaceutical, Foundries, Chemical Processing, Fertilizers, Tobacco, Animal Food Processing, Metallurgical, Wood Processing

### 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. The Titan is the only sensor on the market that verifies the status of each input channel.

Aside from using an industrial standard communication protocol, each sensor is capable of calculating up to three (3) rolling average channels of dust readings along with the alarm status for each channel.



Stack View of Sensor Installation

**\*CUSTOM APPLICATIONS WELCOMED\***

**ATLAS™ DUST SENSORS ARE DESIGNED TO  
WORK IN TANDEM WITH  
B3 SYSTEMS' SENTINEL & E-SENTRY  
CONTROLLERS**

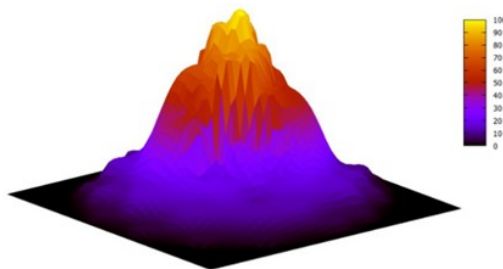
**B3 Systems, Inc.**

Raleigh, NC

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www.b3systems.com



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.

