

Model 201LP

The Redkoh Model 201LP is a three wire particulate monitor that measures particulate levels in air ducts on a real time basis.



The Model 201LP is powered by an external 24V dc supply and its continuous 4-20 ma output can be connected directly to a PLC, recorder, or digital readout. Changes in the 4-20 ma output are directly related to changes in the concentration of particulate in the gas stream.

Applications

Applications for the 201LP monitor include but are definitely not limited to process control, dry solid levels, and environmental applications such as:

- Bag house / fabric filter
- Truck and rail off-loading
- Packaging stations
- Feeders
- Cyclone separators
- Storage silos

Using an array of monitors on bag house compartments and/or outlet ducts is an excellent means of detecting broken bags before an emissions exceedance is reached.

Sensitivity

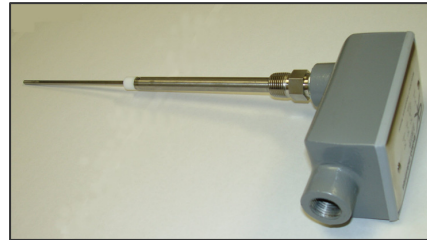
The Model 201LP system can detect a particulate loading as small as .0005gr/dscf (1mg/m³).

There are five selectable sensitivity ranges to cover every requirement.

Broken Bag Detection

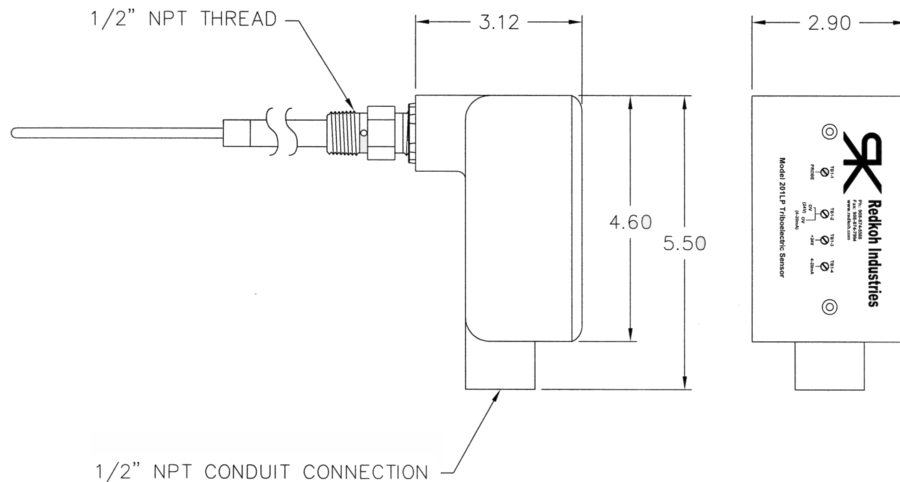
The Model 201 LP Broken bag detector is powered through a 24VDC signal. The 201LP is a cost-effective device for multiple compartment bag house applications.

It is sensitive enough to not only detect broken bags, but also to detect the presence of worn bags.



Features

- Stainless steel probe lengths are available from 6" to 48" in 6" increments. Custom sizes can be supplied.
- Standard 3-wire configuration with 4-20 mA output
- Single opening to duct via 1/2" NPT coupling.
- Electronics can be supplied separate from the probe for high temperature applications.



The Model 201LP monitor uses the Triboelectric principle to measure the electrical charge imparted by dust particles as they strike the probe. The charge picked up by the probe is converted to an electrical current, which is measured by the electronic system.

Measurement System

Operating Principle:	Triboelectric
Power Supply:	24VDC
Sensitivity:	0.0005 gr/dscf (1 mg/m ³)
Output:	4-20 ma

Environmental

Probe Operating Temp:	up to 400 °F
Probe Material:	316 SS with Teflon insulator
Enclosure:	NEMA 4 / IP66

Dimensions

Electronic Enclosure:	5.5"H by 2.9"W by 3.12"D
Active Probe Length:	6" to 48" in 6" increments