



# Sintrol Snifter A1+

## The Next Generation

[www.sintrolproducts.com](http://www.sintrolproducts.com)



## Broken Bag Detection

- Prevent Product Loss
- Low Cost
- Self Adjusting
- No Drift

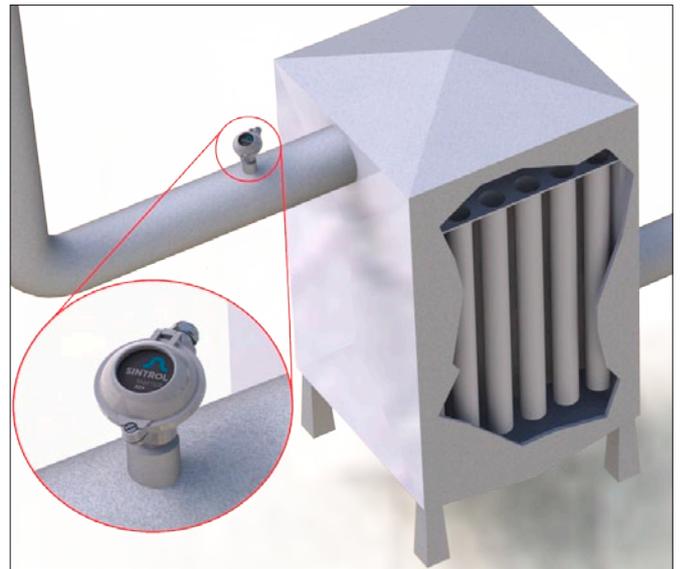
**Snifter** is used to detect filter bag breakages quickly and cost-effectively. It is a compact device consisting of an enclosure, housing state of the art electronics and a probe.

**Snifter A1+** utilises Sintrol's automatic setup function. With this, it can adjust itself to dust flow conditions in your application. It is equipped with two fixed alarm relays.

**Snifter A1+** has the necessary sensitivity to meet the low levels of dust concentrations typical of modern fabric filters. It is reliable enough both in terms of operating continuously without maintenance, and in being able to run despite vibration and build-up on the probe. It is able to respond quickly to meet the requirements of bag filters, minimizing maintenance time and downtime in the plant.

The alarms can also be used for process control (as an ON-OFF system) in FLOW - NO FLOW situations in bulk solids handling and pneumatic transport applications. The Snifter's fast response time enables early detection and helps prevent the loss of expensive product to the environment.

With rising environmental standards, the Snifter A1+ gives the earliest detection available in the market for broken filter systems in plants. With the most sensitive measuring principle in the market, the Snifter A1+ can detect breaches as small as deteriorating filters all the way to large breakages. This allows the plant



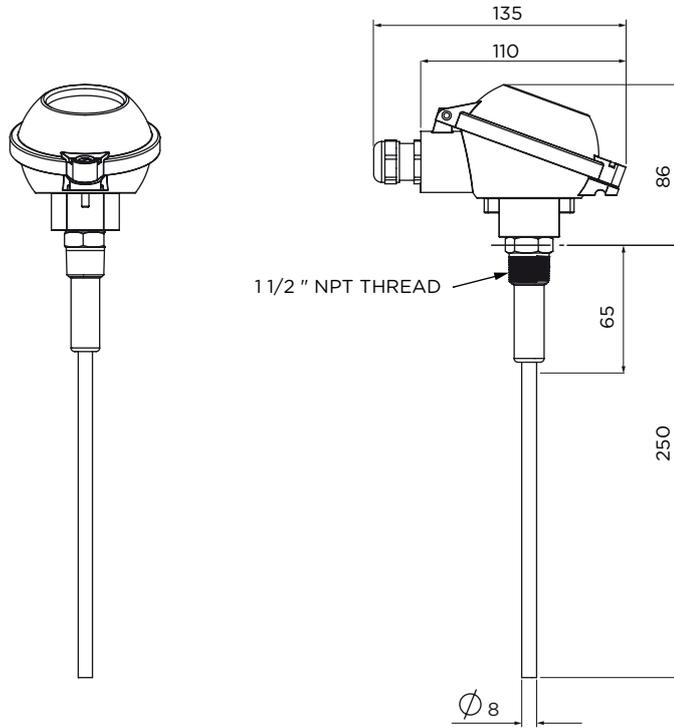
Sintrol Snifter A1+ is installed directly after the dust filtration unit to provide the fastest detection for bag breakages or deterioration.

to optimize the maintenance of the filtration systems and ensure that breaches in the filtration units are located before official emissions limits are exceeded.

Snifter A1+ uses our most advanced measurement platform providing the highest levels of accuracy and response time to the end user. Additionally, the new light indicator system makes it even easier for the customer to locally recognize problems with the filtration unit. The new enclosure with a thicker wall and rounder surface provides maximum durability and reliability of the instrument to withstand heavy industrial conditions.

## Principle of Operation

**Sintrol dust monitors are based on a unique Inductive Electrification technology. The measurement is based on particles interacting with an isolated probe mounted into the duct or stack. When moving particles pass nearby or hit the probe a signal is induced. This signal is then processed through a series of Sintrol's advanced algorithms to filter out the noise and provide the most accurate dust measurement output.**

**Snifter A1+****Snifter A1+ Technical Specifications**

Measurement Objects	Solid particles in a gas flow
Particle Size	0.3 µm or larger
Measurement Range	From 0.01 mg/m <sup>3</sup>
Measurement Principle	Inductive Electrification
Protection Category	IP65
Probe Length (Total/Measuring)	250 mm / 185 mm
Power Supply	12-24 VDC
Power Consumption	3 W
Cable Connection	2 meter cable, 4 pair shielded
Process Connection	NPT 1/2 " male thread, NPT 1/2 " female thread welding socket (optional)
Output Signal	2 solid state relays (max current feed 170 mA at 24 VDC)
Relay Alarm Settings	- Alert: 5 x normal dust level - Alarm: 20 x normal dust level

**Process Conditions**

Temperature	Max 250 °C
Pressure	Max 200 kPa
Gas Velocity	Min 3 m/s
Humidity	95 % RH (non-condensing)

**Ambient Conditions**

Temperature	-20 to +60 °C
Humidity	95 % RH (non-condensing)

**Materials and Weight**

Probe (wetted part)	Stainless steel (AISI 316L)
Process Connection (wetted part)	Stainless steel (AISI 316L)
Probe Insulation (wetted part)	PEEK
Enclosure	Aluminum
Weight	0.6 kg



## Sintrol

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