

- · Low maintenance real-time monitoring of total suspended particles in industrial environments
- · Designed to industrial standards with built in failsafe features to increase reliability

SNIFTER TECHNICAL SPECIFICATIONS

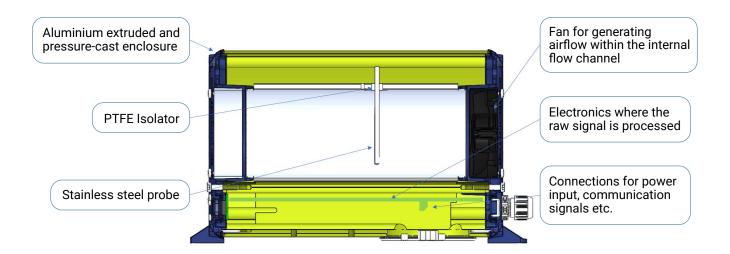
- Easy start-up and commissioning
- Wide measurement range
- Internal self-monitoring for failsafe operation
- Fast response time
- No sample handling required
- Product loss prevention

APPLICATIONS

- Early detection of dust leaks
- Workplace dust monitoring
- Equipment and worker protection
- Supports good housekeeping practice
- Hazardous location supervision
- Helps mitigate the risk of dust explosion

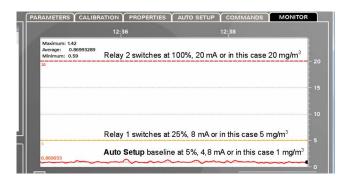
Sintrol DumoPro is a powerful tool for measuring dust concentration in industrial environments because of its high sensitivity to total suspended particles. The field proven state-of-the-art measurement technology is tolerant to sensor contamination making it reliable in a wide variety of dust detection applications. DumoPro utilizes the Sintrol Inductive Electrification technology providing a wide measuring range.

The robustness of DumoPro makes it a safe choice for dust monitoring in rugged industrial environments. Common industries are flour and sugar mills, mining, wood products, grain handling, chemical, power plants or any bulk and powder handling facility. Some common applications include: health & hygiene, equipment safety, good house-keeping, help mitigate the risk of dust explosions, HazLoc monitoring and the detection of unwanted events.



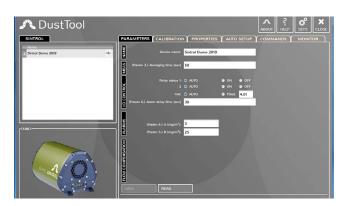
SINTROL'S UNIQUE AUTO SETUP FUNCTION

The Auto Setup function is a unique Sintrol Dust Monitor feature which allows for a simple user friendly setup. During the Auto Setup procedure, which is done in normal process conditions, the dust monitor will automatically adapt to the present conditions and set the measuring range and alarms accordingly.



DUST TOOL

DumoPro can be managed and parameterized with the DustTool PC Software. This offers a convenient platform to view the measurement results, to initiate the Auto Setup and adjust the parameters of the monitor.



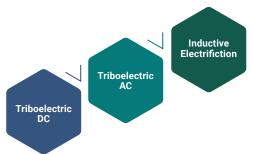
INDUCTIVE ELECTRIFICATION TECHNOLOGY

Since 1993, Sintrol has become a globally recognized dust monitor supplier with over 17 000 installations in more than 50 countries. The measuring principle has evolved into a proven standard for dust monitoring needs.

Ambient air is drawn through the measurement chamber producing a steady constant flow.

Particulate matter flowing through the chamber will interact with the sensor rod causing small electrical charge to pass between the particulate and sensor. These

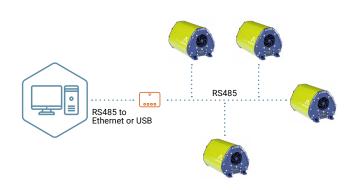
INDUCTIVE ELECTRIFICATION TECHNOLOGY



small electrical charges provide the signal monitored by the electronics. The generated signal is proportionate to the ambient dust levels.

SINTROL NETWORK AND DUSTLOG SOFTWARE

Sintrol devices can be networked via a RS-485 net-work. By using the a Sintrol network, it is easier to connect, track, manage and control a network of dust monitors. DustTool software enables the operator to see and control all monitors in the network, providing access to change parameters, adjust the alarms and dial in the measurement data. Once all the instruments are measuring as desired, DustLog 10 can be utilized to log the data and give operators an over-view of the plants dust levels. DustLog 10 features include comprehensive real-time monitor views of all dust levels, data storage, reporting and off-site data storage.



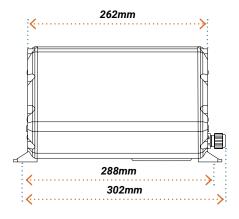
RELIABLE AND USER FRIENDLY

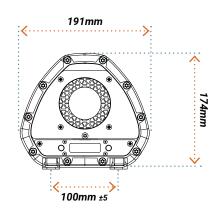
In reference to multiple international safety codes, DumoPro is equipped with the below safety features:

- · All instruments are 100 % tested, normalized and linearized during production.
- Malfunctions are indicated in the way that relays will relax, the mA output will show 22 mA and LEDs will blink.
- · The fan speed is monitored and will trigger an error if the fan is blocked or slowed down.
- A periodic Zero and Span check correction is a standard function of DumoPro. Voltage supply tolerant to +/- 20 % voltage changes.
- · During Auto Setup the LED will blink green and a countdown is shown on the display.
- In hazardous locations Auto Setup can be triggered without opening the instrument.

- It is possible to perform a simple functional test after installation:
 - A properly grounded DumoPro will show no re-action on the measurement by touching it with your hand.
 - DumoPro will react by tearing a piece of paper apart in front of the inlet.
- Dirty or wet sensors may become grounded which distorts the signal. These incidents are detected and an error signal is prompted.
- · On-borard display for direct verification of dust levels or mA output.

DumoPro can be installed anywhere in the production process where the determination of the dust levels is critical or informative. DumoPro makes the task of dust monitoring easier, faster and more reliable than ever before.





TECHNICAL SPECIFICATIONS

Measurement Objects

Measurement Range

Measurement Principle

Protection Code

Power Supply

Power Consumption

Output Signals

Communication Interface

Communication Protocol

Alarm settings

Signal Averaging Time

Alarm Delay Time

Alarm Delay Time

Ambient Conditions

Running Temperature

Humidity

Materials and Dimensions

Weight

Enclosure / Housing

Dimensions (mm)

Options

Hazardous Location Approvals

Total Suspended Particles (TSP)

Detection Limit 0.01 mg/m³ Maximum range up to several g/m³

Inductive Electrification

IP65

24 V DC + - 20%

Up to 10 W

Two configurable alarm outputs (100 mA @24 V DC)

Isolated 4 - 20 mA output loop, up to 250 Ω loop resistance, Namur

NE43 compliant alarms

Serial communication RS-485, USB

Modbus RTU (RS-485)

Sintrol network (USB and RS-485)

Set by Auto Setup based on average measured dust level: 5 times and

20 times of reference dust level. User adjustable

Default at factory: 100s, Adjustable from 0-6000s.

Default at factory: 30s, Adjustable from 0-60 000s.

Default at factory: 0s, Adjustable from 0-25s.

-40°C to +60°C (-40°F to 140°F)

Max 95% RH (non-condensing)

4.2kg (9.3lbs)

Aluminum enclosure, stainless steel cover plates and probe

(AISI 316L).

288 (L) x 191 (W) x 174 (H)

Installation Bracket

Installation Arm

Conduit Fitting for DumoPro Ex UL/CSA

Cable Gland for DumoPro Ex ATEX/IECEx (pending Sintrol Network

Router & DustLog Software

US: Zone 20 AEx ia ta IIIC T93°C Da

CAN: Ex ia ta IIIC T93°C Da

US/CAN: CL II, DV 1, GP E, F, G. IS Probe Ta = -30°C to +60°C ATEX

and IECEx pending