

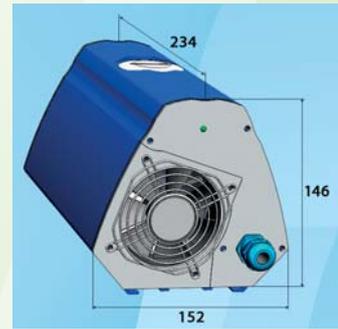
Risks of dusty environment

- High dust concentration in the workplace affects human health – hospital costs
- Dust causes problems for machines – maintenance costs
- Worse product quality – lower yield and extra costs
- Dust explosion – environmental and human disasters



Dumo Dust Monitor

Sintrol Dumo provides information on the concentration level of particulate matter in different industrial workplaces.



Dumo – the perfect tool for continuous dust monitoring

Features

- Low-cost
- Easy to use
- Maintenance free

Sintral Dumo monitors Total Suspended Particles (TSP) in ambient air, based on signal effected by moving particles. Particles interact with a sensor in the device's sampling channel causing an electrical signal which is detected. Test measurements in the laboratory and in the field showed that Dumo is capable of monitoring dust concentrations below 1 mg/m³ and particle sizes as small as 0.3 micrometers.

Sintral Dumo is a useful tool in all work environments where harmful dust concentrations are encountered:

- Mines
- Foundries
- Wood industry
- Cotton processing industry
- Textile mills
- Food and tobacco industries
- Chemical industry
- Paper mills

Technical Specifications

Measurement objects	Solid particles in ambient air
Particle size	0.3 µm or larger
Measurement principle	AC signal (charge transfer)
Averaging time	0 s – 1 h 30 min
Output signals	- 2 solid state relays - Isolated 4...20 mA - Serial communication
Ambient temperature	-20...+60 °C
Enclosure / casing	Aluminium, Stainless steel
Power supply	12 VDC
Cable connection	5 metre cable
Weight 3 kg	3 kg



Dumo is easy to commission and to use and virtually maintenance free.

Sintral Dumo has standard continuous 4...20 mA signal output which can be easily integrated into existing systems such as PLC in the control room. For practical use Dumo has "Alert" and "Alarm" functions corresponding to certain dust concentration levels above the "Normal". The Normal level is determined and fixed at the beginning of monitoring and the two other levels can be set during the commissioning. The Normal, Alert and Alarm levels are indicated by green, yellow and red LEDs which enable continuous dust monitoring. Ease of use makes this device ideal for applications where any disruption in the normal operation may result in an increase of particle concentration in the workplace causing nuisance and harm to people or to machinery in an enclosed environment.

Sintral Inc.

Sintral is a global solutions provider for industrial measurement equipment and monitors. Our product line and expertise allow us to offer innovative and tailored solutions for our clients. With a clientele that spans all areas of heavy manufacturing in over 30 countries, we seek long term relationships with an emphasis on creating custom offerings. We are constantly developing new products to bring greater efficiency and cost savings to our clients.

Ruosilantie 15
00390 Helsinki FINLAND

P. + 358 9 5617 360
Fax + 358 9 5617 3680

www.sintral.com
info@sintral.com