

DUSTHUNTER SB100

particle measuring device

The type-approved dust measuring device with reverse scattered light measurement



More information and current pricing:

www.endress.com/IDSB100

Benefits:

- Easy installation, commissioning, and operation
- Measurement independent of gas velocity, humidity and particle charge
- Approved according to EN 15267
- Low maintenance due to self-monitoring

Specs at a glance

- **Measuring principle** Scattered light backward
- **Process temperature** $-40\text{ °C} \dots +600\text{ °C}$
- **Conformities** Approved for plants requiring approval 13. BImSchV 17. BImSchV 27. BImSchV 30. BImSchV TA-Luft (Prevention of Air Pollution) EN 15267 EN 14181 MCERTS 2010/75/EU U.S. EPA PS-11 compliant

Field of application: The DUSTHUNTER SB100 is a type-approved measuring device for dust at very low to medium concentrations in challenging applications, e. g., in hot or corrosive gases. The measurement is based on the backward scattering of light. Installation is from one side only. Two different penetration depths are possible. Automated compensation of background radiation, therefore no light absorber required. An automated check of the zero and reference point is on board in the device.

Features and specifications

Dust

Measuring principle

Scattered light backward

Measured variables

Scattered light intensity, dust concentration in mg/m^3 (after gravimetric comparison measurement)

Performance-tested measurands

Scattered light intensity

Certified measuring ranges

Scattered light intensity: 0 ... 100 SI / 0 ... 15 SI / 0 ... 50 SI / 0 ... 200 SI

Process temperature

-40 °C ... +600 °C

Process pressure

With MCU-P control unit: -50 hPa...2 hPa

With external purge air unit: -50 hPa...30 hPa

With instrument air (provided by the customer): -50 hPa...100 hPa

Ambient temperature range

-40 °C ... +60 °C

Degree of protection

IP66 / TYPE4X

Conformities

Approved for plants requiring approval

13. BImSchV

17. BImSchV

27. BImSchV

30. BImSchV

TA-Luft (Prevention of Air Pollution)

EN 15267

EN 14181

MCERTS

2010/75/EU

U.S. EPA PS-11 compliant

Dust

Product safety

CE / EAC

More information www.endress.com/IDSB100