

AIRSAFE 2

CONTINUOUS DUST MONITORING



Electrodynamic sensor technology from ENVEA has proven itself in thousands of applications for measuring dust concentrations in process systems.

FEATURES AND BENEFITS

- AirSafe 2 can be used as early detection for dust particles measuring from 0.1 mg/m^3 which could endanger the workplace
- Dust concentrations at work stations are safely monitored
- Possible dust escape from system parts is quickly detected
- Relay output for alarms, an analog 4-20 mA output, communicates with a PC or a PLC via Modbus RTU RS 485
- Up to 10 sensors can be displayed and recorded simultaneously



ASSEMBLY AND INSTALLATION

AirSafe 2 can be installed anywhere in a room.

Except of high ambient temperatures, there is no need to maintain distances from units or walls.

AirSafe 2 can be wall-mounted using brackets provided.

This is a versatile instrument that can be used in various environment and multiple application.

A stand alone version is also available.

USAGE IN EX AREAS

Marking AirSafe 2 EX 3D:  II 3D Ex ic tc IIIC T120°C Dc

Hazardous Area DustEx-Zone 22



Non-hazardous Area

This product complies with: EN 60079-0:2012 + A11:2013, EN 60079-31:2014, EN 60079-11:2012.

TECHNICAL SPECIFICATIONS

Sensor

Measured objects Solid particles in a gas stream

Particle size 0.3 µm or larger

Measurement range From 0.1 mg/m³

Ambient temperature -20 ... +60°C
(Optional: -40 ... +70°C)

Humidity 95 % RH (non-condensing)

Measurement principle Electrodynamic

Fan failure detection Yes

Damping time 1 s

Output signals Relay output, either NC or NO
Analog output 4 ... 20 mA
ModBus RTU 485

Protection IP66 (IP20 for functionality according EN DIN 60529: 2014-09)

Air Flow Std 100 m³/h
EX 130 m³/h

Dimensions 500 x 100 x 240 mm (L x W x H)

Housing material Sensor: Aluminium
Flow duct: St37 powder-coated

Power supply 24 V DC ± 10%

Rating Max. 10 W

Electrical connection Screw terminals

Weight 5.5 kg

