

# DUST ALARM 40

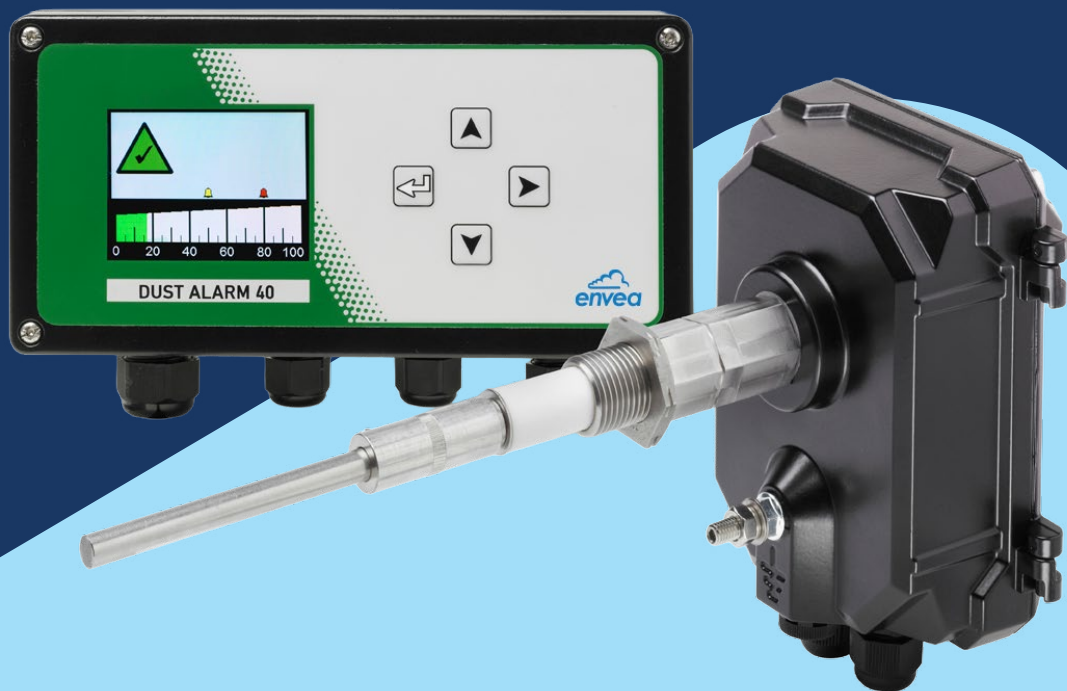
FILTER DUST MONITOR



The Dust Alarm 40 delivers continuous monitoring for bag & cartridge filters and alerts operators to filter failures before emissions limits are exceeded

## FEATURES AND BENEFITS

- Rugged and accurate dust measurement using ElectroDynamic® technology
- Clear, intuitive full-color icon-driven interface for easy setup and operation
- Cost-effective solution for continuous dust monitoring / filter-performance surveillance
- Relative dust reading on clear scale 0–100%
- Two independent alarm set-points + “over-range” indication for flexible control
- System status/alerts clearly defined
- External keypad for user settings



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## TECHNICAL SPECIFICATIONS

### DUST ALARM 40

**Stack diameter** Up to 4 m (13 ft.)

**Flue Gas Velocity** >4 m/s

**Dust Level Response** <1 to 500 mg/m<sup>3</sup>  
(application dependent)

**Table text 10** Table text 10

### Sensor

**Ambient Temperature** -20°C to +50°C (-4°F to 122°F)

**Protection Rating** IP65

**Weight** 900 g (2 lb), excl. rod

**Power Supply Voltage** 24V DC (from the control unit)

### Control Unit

**Type** DUST ALARM 40 Controller

**No. of Sensors/Channels** 1

**Display** Full-colour, anti-glare 2.8" LCD  
(4:3 ratio)

**Weight** 1.2 kg (2.7 lb)

**Outputs (standard)** 2x Alarm Relays (0.5 A DC @24 V)

**Outputs (optional)** 1x 4-20 mA output (250 Ω, isolated)

**Ambient Temperature** -20°C to +50°C (-4°F to +122°F)

**Enclosure Protection Rating** IP66

**Power Supply Voltage** 80–230 V AC (50/60 Hz)

**Cable entries** 3x M16 cable glands  
1x M20 cable gland (for mains power cable)

## SYSTEM OPTIONS

<b>Flue Gas Temperature</b>	-20 to +125°C (-4°F to +257°F)	standard	125°C
	-20 to +250°C (-4°F to +482°F)	option	250°C
<b>Rod Length*</b>	100, 300, 600, or 1000 mm (4, 12, 24 or 40 in., nom.)	specify	RODxxxx
<b>Rod Material</b>	Stainless Steel	standard	S
<b>Sensor Connection</b>	½" British Standard Pipe (BSP)	standard	BSPP
<b>Air Purge</b>	None	standard	0
	½" Air purge unit, BSP	option	AP-BS
	Air Filter + Regulator assembly for purge fitting	option	FFR
<b>Outputs</b>	No 4-20 mA output	standard	0
	4-20 mA output	option	420
<b>Hazardous Zones**</b>	Not required	standard	0
	ATEX Zone 2 (Gas) and 22 (Dust)	option	X
<b>Certificate number:</b>	PCME17ATEX0002X		
<b>Certification code:</b>	<b>Outside stack (enclosure)</b>		
	Ex nA IIB T6 Gc		
	Ex tc IIIC T80°C Dc		
	Ta = -20°C to +50°C		

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Dust Alarm 40 Datasheet

Dust Alarm 40 Filter Dust monitor - Specifications subject to change without notice.

ISO 45001:2018  
ISO 14001:2015  
ISO 9001:2015  
CERTIFICATION

www.envea.global