

PROSENS

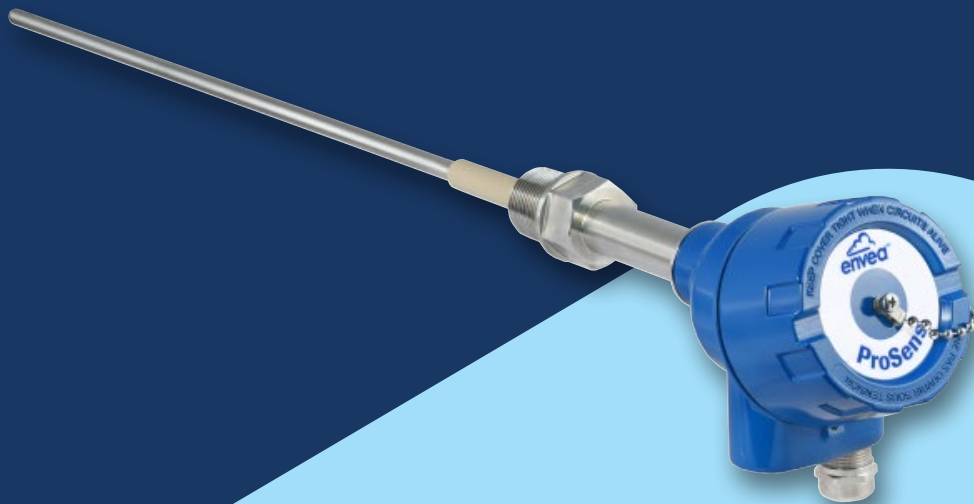
ONLINE DUST MEASUREMENT



ProSens provides continuous dust concentration measurement on clean sides after filters either as a trend signal or as an absolute value for emission measurement

FEATURES AND BENEFITS

- Continuous, precise and reliable dust quantity measurement (mg/m^3)
- Dust measurement possible in large channel diameters
- Output of dust concentration as absolute value
- ATEX-certified
- Measurement of dust concentration at high temperatures or harsh environment
- Trend signal or absolute value
- Data backup – flash memory



certified to ATEX

TECHNICAL SPECIFICATIONS

Sensor	
Measuring objects	Particles in the gas flow
Measuring range	From 0.1 mg/m ³
Process temperature	Standard: 150°C; Optional: max. 500°C
Pressure	Max. 2 bar (Optional: up to 25 bar)
Flow speed	Min. 4 m/sec
Humidity	95% RH or less (non-condensing)
Measuring principle	Electrodynamic
Ambient temperature	- 20 ... +60°C
Sensor rod	Material: stainless steel; (length: 500 / 1000 mm)
Housing	Aluminium
Protection type	IP66; ATEX: cat. 1/2 GD
Electric connection	Connection room DIN M 20
Measurement value alarm relay output	Relay with switching contact Max. 125 V/AC, 2 A Not for Ex-devices Cat. 1 and 2
Weight	Approx. 1.5 kg

Transmitter (DIN Rail)	
Power supply	24 V DC ±10%
Power consumption	20 W / 24 VA
Protection type	IP40 to EN 60 529
Ambient temperature	-10 ... +45°C
Dimensions	23 x 90 x 118 mm (W x H x D)
Weight	Approx. 172 g
DIN rail fastening	DIN 60715 TH35
Interface	RS 485 (ModBus RTU) / USB
Connection terminals cable cross-section	0.2 - 2.5 mm ² [AWG 24-14]
Current output	1 x 4 ... 20 mA (0 ... 20 mA), load < 500 Ω (Active)
Pulse output	Open collector - max. 30 V, 20 mA
Relay contact	Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V/5 mA)
Data backup	Flash Memory

