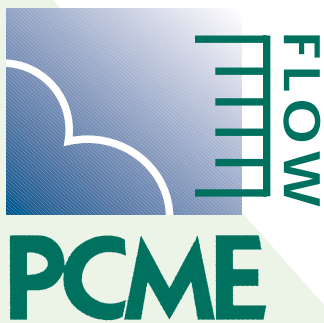


DUST



PARTICULATE MONITORING SYSTEMS

***ADVANCED FILTER FAILURE
DETECTOR FOR DUST
ARRESTMENT PLANT***

DUSTSENSE 10 Series

TriboACE®

PARTICULATE MONITORS

FOR FILTER FAILURE



- Dual alarms (early warning and failure)
- Alarm status and system check LED
- Unique patented TriboACE® technology (increased reliability over triboelectric systems)
- Digital averaging avoids false alarms from baghouse cleaning pulses
- Combined sensor and control unit (c version) or separate sensor and control unit (a version)

System Description

The DustSense 10 series of advanced continuous particulate monitors are based on PCME's unique patented TriboACE® technology, giving added reliability and sensitivity over standard Triboelectric systems.

The DustSense 10's alarm levels can be set as a factor or percentage of the background level of particulate. The user has the ability to set the alarms to instantaneous or average levels above the background or normal level of emissions to indicate early warning of filter failure or gross failure detection. Alarm delay and data averaging are user selectable.

Commissioning is simple and requires no tools or specialised equipment. The DustSense 10 series complies with the U.K.'s EPA for filter failure detection for Part A and Part B processes and European regulations for filter failure monitoring.

Two versions are available - an "a" version, which comprises a separate sensor and control unit connected by a cable, and a "c" version, which is a combined sensor and control unit that is mounted in the stack or duct. Two separate alarm relay outputs are available within each mode.

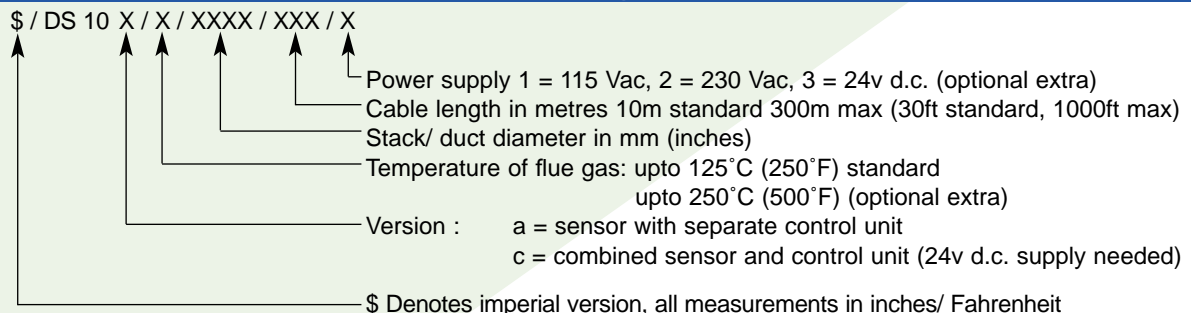
User Controls and Functions

Reference period	User defined from 1 minute to 60 minutes
Alarm level 1	Adjustable 1 - 10,000 units
Alarm level 2	50% of alarm level 1 (fixed setting)
Data smoothing	1 minute data averaging
Alarm delay	up to 1 minute or 2 minutes
Relay outputs	2 separate relays, voltage free contacts. Rated 2 Amp @ 250 Vac

Specification

	DS10a		DS10c
	Control unit	Sensor	Combined unit
Enclosure rating	IP 65	IP 65	IP 65
Enclosure size (mm)	75l x 80h x 55d	75l x 81h x 57D	75l x 81h x 57d
Enclosure weight	700gms (1¼lbs)	500gms (1lbs)	500gms (1lbs)
Power supply	115/230Vac 50/60Hz	N/A	24v dc@40mA (option)
Relay contacts	2 of 2 Amps @ 250Vac	N/A	2 of 2 Amps @ 250Vac
Ambient temperature	-20°C to +50°C (-65°F to +125°F)	-20°C to +50°C (-65°F to +125°F)	-20°C to +50°C (-65°F to +125°F)
Display	Tri-state LED (alarm 1,2 & status)	N/A	Tri-state LED (alarm 1,2 & status)
Cable lengths	N/A	10 to 300m (10m std)(30-100ft)	N/A
Cable to control unit	N/A	8 core screened	N/A
Stack/duct connection	N/A	½" BSP (female)	
Sensor lengths	N/A	100,250,500,750,1000mm (4, 10,20,30,40 inches nominal)	
Sensor material	N/A	316 stainless steel, PTFE insulator	
Stack gas temperature	N/A	Standard: -20°C to +125°C (-65°F to +250°F) Optional: up to 250°C (500°F) For higher temperatures please consult PCME Ltd	

Product Ordering Codes



About PCME

PCME is a world leader in particulate measurement. The company produces equipment for emissions monitoring, process control and solids flow monitoring. A dedicated team of qualified application and sales engineers is always on hand and should be consulted in the selection and usage of the most suitable equipment for any particulate application.

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PCME products are the subject of worldwide patents. Due to the continuing product development programme, PCME reserves the right to change any specifications without prior notice.