

662



# Filter Performance Monitors

MODEL : LEAK LOCATE 662 SENSOR



**ELECTRODYNAMIC™**  
INSIDE

## SPECIFIC FEATURES:

- Self-contained leak monitoring system for on-line and off-line cleaned multi-compartment bag filters
- Identifies compartments with broken or leaking bags before large-scale emission events occur
- Reduces filter maintenance intervals, process down-time and filter costs
- PC-ME DUST TOOLS™ software options for comparing compartment emissions and locating specific, failing bag rows



# TECHNOLOGY

## SYSTEM DESCRIPTION

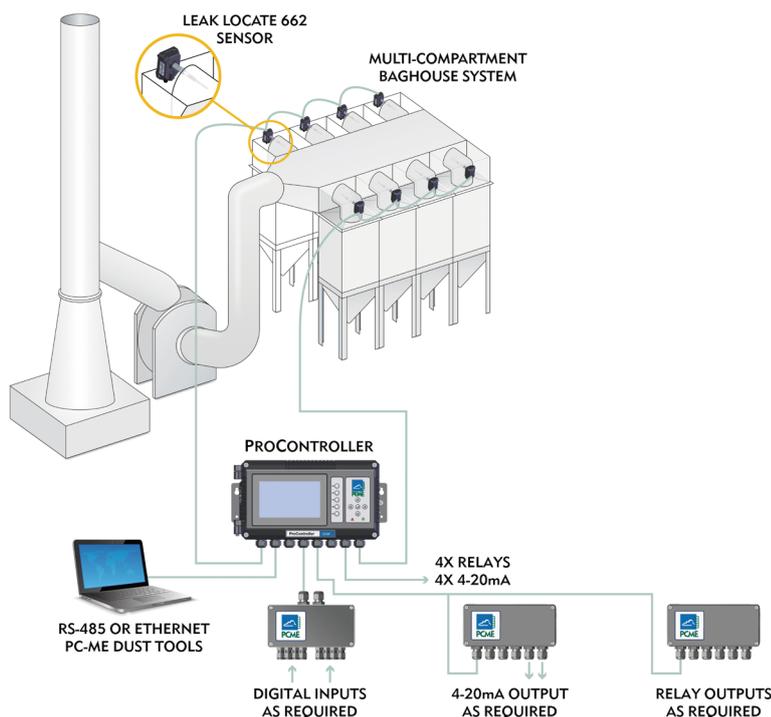
The PCME LEAK LOCATE 662 is a digitally networked, multi-compartment baghouse monitoring system providing remote observation of the condition of the condition of bag and cartridge filters.

An ElectroDynamic® sensor is installed in the outlet of each compartment to monitor dust emission levels. The network of sensors connected to the ProController, which provides a large graphical user interface giving a clear indication of each compartment's dust level and onward communication to a PC or PLC network.

The system is supported by the PC-ME DUST TOOLS software suite for PCs, with advanced features for monitoring emission trends and identifying failing or broken bags. For on-line cleaned bag filters the specific bag row containing leaking bags can be located.

The PCME LEAK LOCATE 662 is a valuable filter-maintenance tool:

- giving advance warning of filter deterioration
- enabling users to make significant savings in spares, maintenance time and lost production time
- reducing the likelihood of large-scale emission events occurring.



## PRINCIPLE OF SENSOR OPERATION

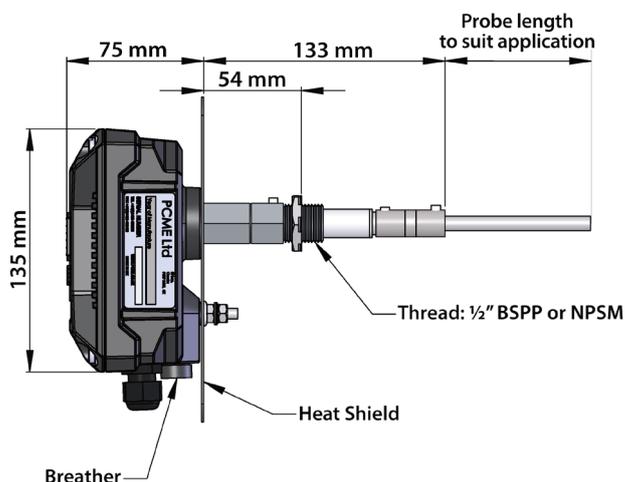
The sensors use ENVEA's unique and patented ElectroDynamic® Probe Electrification technology. Particulates in the airstream interact with the sensing rod to induce a charge signature. The sensor electronically filters the resulting signal to reject signals outside a defined frequency range (rejecting the DC Triboelectric signal), making it less susceptible to changes in particle velocity and eliminating the effect of any particulate contamination on the sensing rod (unlike Triboelectric dust monitors which suffer from sensor contamination issues).



## SENSOR OPTIONS AND SPECIFICATIONS (SEN662-0125S)

662 Sensor Options			Order Code
Flue Gas Temperature	-20 to +125°C (-4°F to 257°F)	standard	125C
Rod Length	300 mm (std.) or 400, 500, 600, 800, 1000 mm	specify	RODxxxx
Rod Type	Stainless Steel Rod (½" lock nut stack connection)	standard	S
Sensor Connection	British Standard Pipe (BSP)	standard	BSPP
Air Purge	none	standard	0
	Air purge unit (½" BSPP or NPSM)	option	AP-BS/AP-NP
	Filter + Regulator assembly for purge fitting	option	FFR

662 Sensor Specifications	
Ambient Temperature	-20°C to +50°C (-4°F to 122°F)
Enclosure Dimensions	W 111 x H 135 x D 75 mm (4.4 x 5.3 x 3 in.)
Power Supply Voltage	24V DC (from the control unit)
Current consumption	20 mA



## SYSTEM OPTIONS AND ACCESSORIES

Net Modules		Order code
Network Spur	For spur-linked sensor networks	ACCSPUR

## ABOUT ENVEA

As a progressive environmental Company, ENVEA specialises in particulate measurement for industrial processes. With a worldwide reputation for reliability, innovation and technological excellence, the Company produces under the trademark envea™ equipment for concentration and mass monitoring for regulatory, environmental and process control requirements. 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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