

# PARTICULATE DUST MONITOR



## ZETA 5000

### DESCRIPTION

With Ever Increasing Environmental Control It Is Important To Be Able To Make Accurate And Reliable Measurements Of Dust And Particulate Levels To Ensure That The Authorized Emission Limit Value Set By The Regulatory Authorities Is Not Exceeded.

Etr-Unidata's Customers Can now benefit from the Innovative Design of the New **Zeta 5000** To Make Accurate, Reliable And Fast Measurements That Are Not Influenced By Such Factors As Stack Moisture Content Or Particle Size Distribution.

The New Optical Infrared Based **Zeta 5000** Is A Revolutionary Concept In Dust Monitoring Designed To Provide Better And More Accurate Measurements Especially In Difficult Process Conditions Such As Those Found In The Stacks From Roadstone And Asphalt Manufacturing Processes.

The Revolution **Zeta 5000** Has Its Transmitter And Receiver Units Located On The Stack At An Angle Of 90 Degrees To Each Other. The Transmitter Is Designed To Fire A Large Cone Shaped Projection Of Infrared Light Into The Center Of The Stack, The Receiver Then Picks Up The Light Reflected From The Particulate. This Unique Configuration Enables A Much Larger Area Of The Stack To Be Monitored For Particulate Than With More Traditional Methods.

## USER BENEFITS

In Addition To The **Zeta 5000** Providing A Significantly Larger Area Of Measurement Than Traditional Instruments, Etr-Unidata's Asphalt And Roadstone Customers Also Benefit From A Wide Range Of Other Advantages Too, This Is Because:

- The Zeta 5000 Is A Non Intrusive Optical Based System, And As Such Has Very Low Maintenance Requirements, Unlike Alternative Tribo Electric Probe Based Systems.
- The Zeta 5000 Provides Immediate Response To Changes In Process Conditions Or Abatement Bag Failure, Other Slower Responding Systems May Not Pick Up These Changes, Leading To An Undetected Exceedance Occurring.
- The Zeta 5000 Is Insensitive To Changes In Stack Moisture Concentrations So Avoids Uncertainty In The Dust Concentration Measurement From Occurring During Start Up Or When Wet Products Are Introduced Into The Process.
- The Zeta 5000 Over Compensates For Bag Failure Conditions, Ensuring That These Occurrences Are Never Missed.
- The Zeta 5000 Has Superb All Round Performance Combined With Very Low Limits Of Detection And Minimum Long Term Drift.
- The Zeta 5000's Excellent Build Quality Combines Long Term Reliability with Very Low Cost of Ownership Requirements.

## SPECIFICATIONS

Detection Limit	:	0.1 Mg M <sup>-3</sup>
Minimum Range	:	0 - 15mg M <sup>-3</sup>
Maximum Range	:	0 - 1000 Mg M <sup>-3</sup>
Readout	:	Continuous
Response Time	:	0.1 To 600 Seconds (Adjustable)
Data Logging	:	Up To 10 Million Time Stamped Readings (Non Volatile)
Gas Temperature	:	Up To 800 °c As Standard
Power Supply	:	110 – 230 V. Auto Ranging
Outputs	:	4-20 Ma Or Serial Rs232.
Alarm Outputs	:	2 Volt Free Outputs.
Protection Rating	:	IP 67

Note : Specifications and Features will vary with application. The above are established and validated during design, but are not to be construed as test criteria for every product. Due to endee's commitment to research, design and product improvement, specifications are subject to change without notice.



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