

ENVI-Stack™



Continuous Emission Monitoring

The ENVI-Stack™ from Environics is the latest evolution in continuous emission monitoring (CEM) systems that offer turn-key, stack to analyzer solutions, based on IMS and GC-IMS technology. Ion Mobility Spectrometry (IMS) is a simplified atmospheric pressure time-of-flight technique that is highly selective with low ppb to ppm sensitivity and can operate in the most severe conditions. ENVI-Stack™ does not require the use of paper tape, pre-concentrators or chemical reagents..

INDUSTRIES

- Electric Power and Cogeneration Plants
- Pulp and Paper
- Incinerators
- Chemical Plants
- Oil Refineries
- Wastewater Treatment
- Cement or Ceramic Kilns
- Pharmaceutical
- Primary Aluminum Refining
- Plastics



The ENVI-Stack™ can be used with all standard dilution or non-dilution sampling systems. With the high sensitivity of IMS there is no risk of sample loss when using high dilution ratio probes. This is a typical problem with infrared (IR & FTIR), ultraviolet (UV), gas filter correlation (GFC) and other measurement techniques. Because ENVI-Stack™ analyzers use direct measurement and not differential measurement, small variations in concentration are easy to track.

While there are well established methods for criteria pollutants such as CO, SOx, NOx, ozone and particulates, there have not been such clear analyzer choices for hazardous air pollutants (HAPS). ENVI-Stack™ analyzers are designed to perform with the highest degree of reliability and accuracy when measuring HAPS such as ammonia, chlorine, phosgene, HCN, HCl, HF, chlorine dioxide and many others. Because of the simplicity of design and limited moving parts, ENVI-Stack™ analyzers will have the lowest maintenance and downtime of any current analyzer system.



Detection Principle	Ion Mobility Spectrometry (IMS), or Gas Chromatography-IMS
Ionization	Tritium (3H)
Measurable Compounds	Ammonia, Acrylonitrile, Acetonitrile, Arsine, Bromine, Chlorine, BTX, Chlorine Dioxide, CMME, Ethylene Oxide, HCFC's, HFC's, HFPO, Hydrogen Chloride, Hydrogen Bromide, Hydrogen Iodide, Hydrogen Fluoride, Hydrogen Peroxide, Isocyanates, Methyl Bromide, Methyl Iodide, NMP, PFIB, Phosgene, Phosphine, Sulfur Dioxide, Sulfur Trioxide, Vinyl Chloride
Sensitivity	Low ppb range
Dimensions	280mm x 100mm x 280mm (11" x 4" x 11")
Weight	6.5 kg (14.33 lbs.)
Enclosure	<ul style="list-style-type: none"> • IP 55 Standard Indoor enclosure • NEMA 4X (IP 66, 67) Outdoor enclosure
Operating Temperature:	0°C to 50°C (32°F to 122°F)
Moisture	-40 to + 50 (C), -40 to + 122 (F)
Data Output	0% to 90% RH
	<ul style="list-style-type: none"> • Integrated Graphic Display • USB Interface • Optional LAN/WLAN/Ethernet • Optional 4-20 mA (analog) • Optional RS232/485
Warm Up Time	15 minutes
Measurement Time	Seconds
Rechargeable Battery	Li-Ion battery, Minimum 8 Hour Operation
Power	220 VAC/19VDC or 110 VAC/12-24V
Carrier Gas	No Carrier Gas Required

Dr. Marino Müller AG

Process Control Instrumentation

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All operations in Environics have been audited and certified against ISO 9001:2008 and NATO AQAP 2110 standards.