



ENVI-Air™



Ultra-low level Gas Detection

The ENVI-Air™ from Environics is a continuously operating gas analyzer designed for ultra-low level detection of either single or multi-component hazardous gases in ambient air. It will operate indoor or outdoor in the harshest environmental conditions and needs little or no maintenance.

INDUSTRIES

- Oil and Gas Production
- Plastics Manufacturing
- Semiconductor Fabrication
- Chemical Production
- Pharmaceutical Manufacturing
- Gas Pipeline Safety
- Medical Sterilization
- Primary Metal Processing



Industrial Solutions

ENVI-Air™ is based on IMS or GC-IMS technology. Ion Mobility Spectrometry (IMS) is a simplified atmospheric pressure time-of-flight technique that is highly selective with low ppb to % sensitivity. The GC-IMS adds multi-component separation prior to the IMS analysis. ENVI-Air™ does not require the use of paper tape, pre-concentrators or chemical reagents.

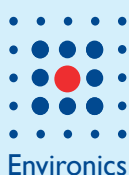
The ENVI-Air™ can detect hazardous gases at far lower concentrations than traditional analyzers and react in real-time. This gives the operator a longer safe response window to take corrective action. The ENVI-Air™ enclosures can range from Class 1 Division 1 to general purpose.

The ENVI-Air™ is virtually drift free and unaffected by humidity or temperature changes and will be factory calibrated for the compounds of interest for maximum accuracy and reliability. Because of the simplicity of design and limited moving parts, ENVI-Air™ 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) No Licence or Wipe Tests Required
Measurable Compounds	Ammonia, Acetone, Acrylonitrile, Acetonitrile, Arsine, Benzylchlorid, Bromine, Chlorine, Chlorocycane, BTX, CMME, Ethylene Oxide, Dibutylphthalat (DMP), Dimethylsulfat, HFPO, Hydrazin, Hydrogen Chloride, Hydrogen Bromide, Hydrogen Fluoride, Hydrogen sulfid, TDI, Methyl Bromide, Isopropyl alcohol, Methyl Iodide, Nitrogen dioxide, NMP, PFIB, Phosgene, Phosphine, PGME, PGMEA, Sulfur Dioxide, Triethylamine, Vinyl Chloride
Sensitivity	Low ppb range
Moisture	0% to 90% RH
Data Output	<ul style="list-style-type: none"> • Integrated GUI • 4-20 mA (Analog) • RS232 • RS485 (Option) • USB (Option) • WLAN (Option)
Warm Up Time	20 minutes
Measurement Time	Seconds
Power	220 VAC/19VDC or 110 VAC/12-24V
Carrier Gas	No Carrier Gas Required
Storage Temperature	-40°C to +50°C (-40°F to +122°F)

	19" Rack Mount	Industrial Enclosure (NEMA 4X)
Enclosure		
Dimensions	483mm L x 381mm W x 89mm H (19"x15"x3.5")	160mm L x 400mm W x 500mm H (6"x15.7"x19.7")
Weight	6.44 kg (14.2 lbs.)	18 kg (40 lbs.)
Operation Temperature	-10°C to +50°C (+14°F to +122°F)	-40°C to +50°C (-40°F to +122°F)
Rechargeable Battery	Li-Ion Battery Min. 8 hrs Operation	No Battery



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