



# 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.



<b>Detection Principle</b>	Ion Mobility Spectrometry (IMS), or Gas Chromatography-IMS
<b>Ionization</b>	Tritium (3H) No Licence or Wipe Tests Required.
<b>Measurable Compounds</b>	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
<b>Sensitivity</b>	Low ppb range
<b>Moisture</b>	0% to 90% RH
<b>Data Output</b>	<ul style="list-style-type: none"> <li>• Integrated GUI</li> <li>• 4-20 mA (Analog)</li> <li>• RS232</li> <li>• RS485 (Option)</li> <li>• USB (Option)</li> <li>• WLAN (Option)</li> </ul>
<b>Warm Up Time</b>	20 minutes
<b>Measurement Time</b>	Seconds
<b>Power</b>	220 VAC/19VDC or 110 VAC/12-24V
<b>Carrier Gas</b>	No Carrier Gas Required
<b>Storage Temperature</b>	-40 °C to +50°C (-40°F to +122°F)

<b>Enclosure</b>	19" Rack Mount	Industrial Enclosure (NEMA 4X)
<b>Dimensions</b>	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")
<b>Weight</b>	6.44 kg (14.2 lbs.)	18 kg (40 lbs.)
<b>Operation Temperature</b>	-10°C to 50°C (+14°F to +122°F)	-40°C to +50°C (-40°F to +122°F)
<b>Rechargeable Battery</b>	Li-Ion Battery Min. 8 hrs Operation	No Battery

## Dr. Marino Müller AG

Process Control Instrumentation

welcome@muellerag.ch  
 Gewerbestrasse 9 CH-8132 Egg Switzerland  
 Tel. +41 44 986 29 29 Fax +41 44 986 29 39

All operations in Environics have been audited and certified against ISO 9001:2008 and NATO AQAP 2.110 standards.