



ENVI-Pro™



Continuous Process Gas Monitoring

The ENVI-Pro™ from Environics offers customized continuous process gas monitoring 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 and can operate in the most difficult process conditions. ENVI-Pro™ does not require the use of paper tape, pre-concentrators or chemical reagents.

INDUSTRIES

- Oil Refining
- Plastics Production
- Semiconductor Fabrication
- Chemical Processing
- Pharmaceutical Production
- Gas Pipeline Safety
- Medical Sterilization
- Fluoropolymer Contamination



Industrial Solutions

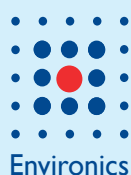
The ENVI-Pro™ is designed to measure low-level contaminants that can affect the efficiency of an industrial gas process. It can detect and react in real-time to concentration fluctuations that might impact the processing efficiency, feedstock utilization, catalyst poisoning or downstream corrosion. The ENVI-Pro™ is designed to continuously sample in sub-atmospheric, atmospheric or high pressure gas streams and in a wide variety of sample matrixes from hydrogen or hydrocarbon blends to ambient air. ENVI-Pro™ enclosures can range from Class 1 Division 1 to general purpose. With the high sensitivity of IMS there is no risk of sample loss, even when using high-ratio dilution sampling systems. This is a typical problem with infrared (IR & FTIR), ultraviolet (UV), gas filter correlation (GFC) and other measurement techniques. ENVI-Pro™ process gas analyzers can be integrated with the full range of available sample pretreatment systems including thermal reactors, chillers, or sample dryers to optimize the measurement.

The ENVI-Pro™ is virtually drift free and unaffected by humidity or temperature changes and will be factory calibrated to the process gas stream for maximum accuracy and reliability. Because of the simplicity of design and limited moving parts, ENVI-Pro™ 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)	

Enclosure	19" Rack Mount	Industrial Enclosure (NEMA 4X)
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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