

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

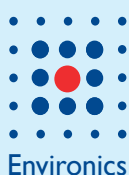
- Oil Refining
- Plastics Production
- Semiconductor Fabrication
- Chemical Processing
- Pharmaceutical Production
- Gas Pipelines
- Medical Sterilization
- Fluoropolymer Contamination



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)
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) -40 to + 50 (C), -40 to + 122 (F)
Moisture	0% to 90% RH
Data Output	<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



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