



# **TOXIC GAS MONITORING INDOOR AIR QUALITY & LEAK DETECTION**

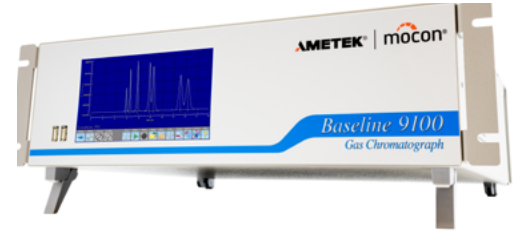


Parts-per-billion detection utilizing gas chromatographs and hydrocarbon analyzers.

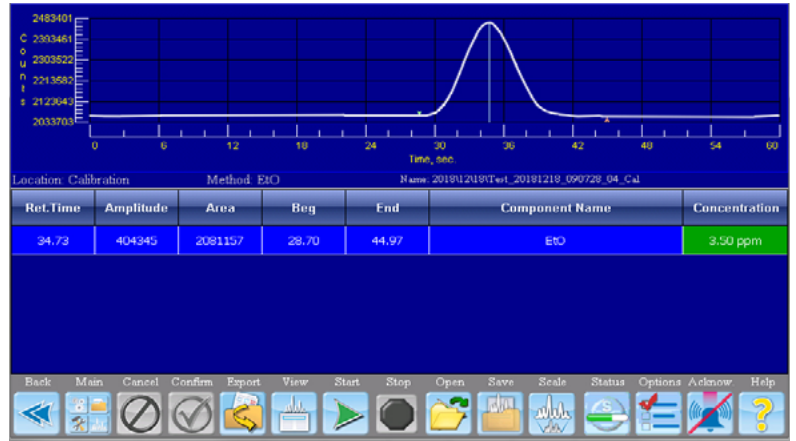


# INDOOR AIR QUALITY

AMETEK MOCON has been a leading provider of gas detection equipment, monitoring levels of toxic gases well below OSHA action limits for decades. The BASELINE® 9100 GC product line offers selective compound measurement (without interferences) to analyze multiple sample points throughout a facility and provide time-weighted averages for each location. This low-level selective measurement can give personnel enough time to react to mounting health risks.



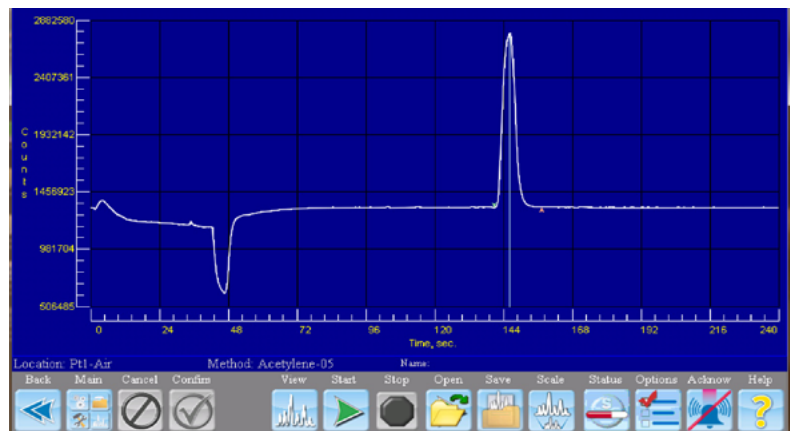
## Ethylene Oxide in Air



<b>Detector</b>	Flame Ionization (FID)
<b>Carrier Gas</b>	UHP Hydrogen
<b>Sample</b>	Ambient Air
<b>MDQ/LDL</b>	PID: < 50ppb HS-PID: < 0.1ppb

The BASELINE 9100 Ethylene Oxide Analyzer provides an automated, direct measurement of EtO in ambient air. It is both specific and sensitive to low levels of ethylene oxide. Ethylene oxide has several uses, including medical device sterilization and fumigation, as well as producing other chemicals to generate a wide range of products. Workplace exposure is typically monitored in areas of uncontrolled emissions or venting in industrial/medical settings, in addition to decontamination, packaging and preparation, and sterile product storage areas.

## Formaldehyde in Air

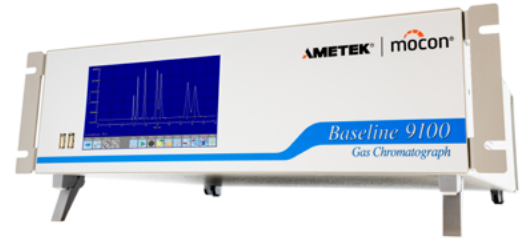


<b>Detector</b>	Flame Ionization (FID)
<b>Carrier Gas</b>	UHP Hydrogen
<b>Sample</b>	Ambient Air
<b>MDQ/LDL</b>	< 30ppb

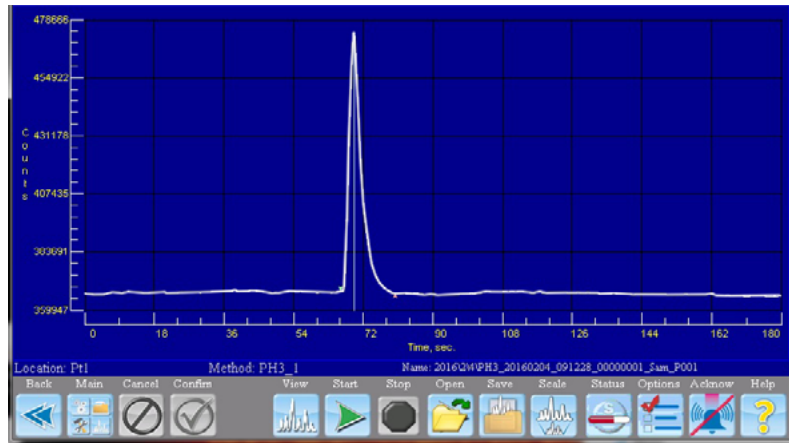
BASELINE 9100 GCs are specifically applied to monitor low parts-per-billion levels of toxic gases at dozens of sample points with multi-level alarms and provide daily time weighted average (TWA) reports for each location. Depending upon the specific industry requirement, the BASELINE 9100 can be customized by AMETEK MOCON to detect many different toxic gases well below OSHA action levels while avoiding the potential false-positive alarms that are common with total gas detectors.

# LEAK DETECTION

The BASELINE 9100 GC is used throughout the world for early warning leak detection because of its continuous, interference-free, low-level analysis of a facility's compounds of interest. The BASELINE 9100 offers unattended operation and automatic calibration, and can be programmed to notify or alarm depending upon the magnitude of the event.



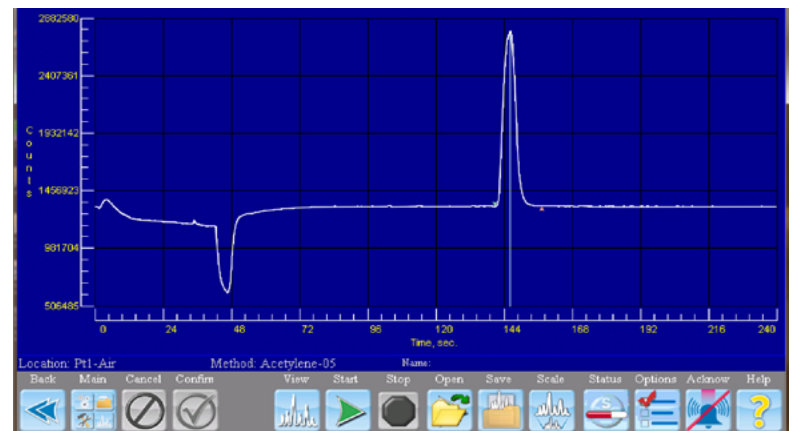
## Phosphine in Air



<b>Detector</b>	Photoionization (PID) High Sensitivity PID (HS-PID)
<b>Carrier Gas</b>	Nitrogen
<b>Sample</b>	Ambient Air
<b>MDQ/LDL</b>	PID: < 20ppb, HS-PID: < 2ppb

Phosphine is a commonly used dopant gas that requires a gas-specific detection system due to its toxic nature. The BASELINE 9100 monitors well below recommended short-term exposure limits (STEL) and provides TWA reporting, along with three user-programmable alarm levels for each sample location.

## Acetylene in Air



<b>Detector</b>	Flame Ionization (FID)
<b>Carrier Gas</b>	UHP Hydrogen
<b>Sample</b>	Ambient Air
<b>MDQ/LDL</b>	< 30ppb

BASELINE 9100 GCs are specifically applied to monitor low parts-per-billion levels of toxic gases at dozens of sample points with multi-level alarms and provide daily TWA reports for each location. Depending upon the specific industry requirement, the BASELINE 9100 can be customized by MOCON to detect many different toxic gases well below OSHA action levels while avoiding the potential false-positive alarms that are common with total gas detectors.

# CUSTOM PROCESS GC APPLICATIONS



The applications shown in this brochure are common examples of the different analyses we have created for our customers. Contact us to discuss your detection needs. AMETEK MOCON will select the best detector for your application commonly utilizing Photoionization (PID), High-sensitivity Photoionization (HS-PID), Flame Ionization (FID) or Thermal Conductivity (TCD). Analytical arrangements typically involve a single-valve, two-column configuration, but may vary depending upon the application.