

Series 900 Toxic Gas Analyzer



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Continuous readout
Entirely self-contained
Easily converts to other analyses
Uses standard chemical procedures

The Series 900 Toxic Gas Analyzer is engineered for quantifying trace amounts of toxic gases accurately and continuously.

The principle of this automated, fully digital instrument is based on aqueous scrubbing of the target gas by a coil sampler coupled with a gas-liquid separator, followed by derivatization of the analyte to form a highly light-absorbing chromophore in an on-line reactor. The derivative then is quantified by a colorimetric detector.

Any gas species with potential to be derivatized can be determined by the Series 900 TGA; e.g.: NF_3 , HF, HCN, HCl, SO_2 , H_2S , H_2CO , HCHO, aldehydes, etc. The analyzer is not only able to determine trace level toxic gases in air, but also to quantify the ppb/ppm level impurities in industrial processing and electronic gases, such as N_2 , N_2O , NF_3 , C_xH_y , etc.

Features

- 19" Rack mounted design
- Internal sample pump
- Adjustable flow rate and light intensity
- 4-20 mA or voltage output
- Extremely sensitive: capable of application dependent detection range of 5 ppb to 10 ppm

Utilizing documented and cutting-edge technology methods, the Series 900 TGA offers a highly selective, precise, inexpensive, and easy-to-use analytical instrument for many industrial gas applications.

Custom applications based upon your specific needs are available for evaluation by request.

Example Analyses

Parameter		Typical Detection Ranges
Ammonia	NH_3	10 ppb - 10 ppm
Hydrogen Fluoride	HF	10 ppb - 10 ppm
Formaldehyde	H_2CO	10 ppb - 50 ppm

SB-90



Global Headquarters

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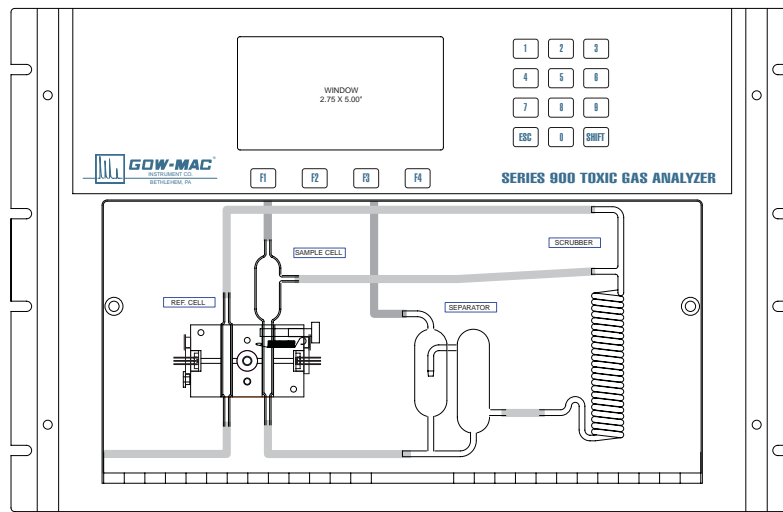
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General Specifications* – Series 900 Toxic Gas Analyzer

Optimum Temperature Range	Ambient: 60° F - 90° F (15.6° C - 32.2° C)
Relative Humidity Range	5 to 95%
Display	Vacuum Fluorescence Graphical Display with Keypad
Detector Type	Colorimetric detector
Outputs	4-20 mA (relative to the concentration of the component) Recorder: 0 - 1 mV, 0-1 V, 0-10 V (standard) Serial: RS232
Power	Series 900: 115 V, 60 Hz Series 902: 240 V, 50 Hz
Dimensions	16.5" W x 21.0" D x 12.0" H (419.1 x 533.4 x 304.8 mm)
Weight	Net: 50 lbs (23 Kg) Shipping: 60 lbs (28 Kg)

*Specifications and features will vary depending upon system configuration and are subject to change without notice. The above specifications are established during design, but are not to be construed as test criteria for every product.



Ordering Information

Series 115 V 240 V
900 902

Toxic Gas Analyzer

Continuous colorimetric monitor, complete with digital readout, internal sample pump, 0-1 V recorder output, complete with 1 year supply of pump tubing. (less analytical module kit - pick one from the list below)

Analytical Module	Parameter(s)
TGAK-1	Ammonia (NH ₃)
TGAK-2	Hydrogen Fluoride (HF)
TGAK-3	Formaldehyde (H ₂ CO)

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