



GUIDE TO CONTINUOUS INSTRUMENT SELECTION

Species to be Measured	Concentration Range	Model # & Technology
VOC's total	ppm	112 PID, FID
	ppm - %	1000 TCD, CG, EC (>25 sensors)
VOC's total- (no CH ₄ response)	ppm-low ppt	PID- 201-PPB w concentrator
	PID- ppb	PID-201- HS
	PID-ppm	PID -201C
VOC's total	ppm	201-FID-ppm (incl. CH ₄)
Non Methane HC	ppm	201-FID (CH ₄ and Total HC)-catalytic Converter
CO ₂ , CH ₄ , CO	ppm to 100% CO ₂ , CH ₄ , CO 1% to 100%	202 IR-CH ₄ , CO, CO ₂
N ₂ O	0-1,000 ppm	202 IR-N ₂ O
Mercury (Hg)	0-100 ppb	80-UV-coal fired power plant stacks
	0.1 ppt to 10 ppb	80-GPC-PID- ambient air
	Low ppt to high ppb	80-GPC-PID- ambient air
H ₂ , He, Ar binary gases	ppm to %	204- TCD
Exogas (H ₂ , CO ₂ ,CH ₄)	%	205-TCD, 2 x IR
O ₂	%	209-EC-O ₂
Specific VOC's, S, P, H ₂ , He	ppb to %	301-C-PID, FID, TCD ,FPD, FUV
Abbreviations		Photoionization Detector (PID), Flame ionization Detector (FID), Flame Photometric Detector (FPD), Thermal Conductivity Detector (TCD), Electrochemical (EC), Infrared (IR), Ultraviolet (UV),GPC (gold pre concentrator)

List of Literature

112, 1000, 201, 202 204, 205, 80 UV,80 GPC/PID, GC301C, G301C MP

Rotating Images

Specs/Applications

<p style="text-align: center;">Model 112 Total VOC's</p> 	<p style="text-align: center;">Model 112 PID or FID</p> <p>Dimensions: Weight: 10 #</p> <p>Total VOC's in air or water (HS) Applications: Carbon bed breakthrough, VOC's in water</p> <p>Z purge can be added for Class 1 Div.2 areas Outputs: 0-1 VDC, RS232, 4-20 mA.</p>
<p style="text-align: center;">Model 1000 Gas Analyzer</p> 	<p style="text-align: center;">Model 1000</p> <p>GG or TCD, and 0-3 EC sensors (>25) Dimensions: 6.75"W x 6"D x 10 3/8 "H Weight: 7.5</p> <p>EC Sensors: LEL, H2, He, EC (HCl, Cl₂, SO₂, NO, CO, H₂S...)</p> <p>Z purge can be added for Class 1 Div.2 areas Outputs: 0-1 VDC, RS232, 4-20 mA.</p>
<p style="text-align: center;">Model 201 C Total VOC's</p> 	<p>Model 201 19" Rack Mount Detectors; PID or FID Dimensions: 19"W x 14"D x 11"H Weight: 21#</p> <p>Total VOC's in air or water Applications: Total VOC's In stacks, incinerators, carbon bed breakthrough, catalytic combustor output, leak detection of toxic chemical, VOC's in water</p> <p>Outputs: 0-10 VDC, RS232, RS485, 4-20 mA</p>

Model 201C Total VOC's



Model 201C NEMA 4 Wall Mount

Dimensions: 21"W x 1"D x 23"H

Weight: 30 #

Total VOC's

Detectors: PID+ or FID*

Applications: Total VOC's
In stacks, incinerators, carbon bed breakthrough, catalytic combustor output, leak detection of toxic chemical, VOC's in water

Outputs: 0-10 VDC, RS232, RS485, 4-20 mA

Z purge can be added for Class 1 Div.2 areas

*FID requires zero air and hydrogen for operation
+ PID does not respond to CH₄

Model 202 CO₂, CH₄, CO, N₂O



Model 202 IR NEMA 4

Dimensions: 6.75"W x 6"D x 10 3/8 "H

Weight: 7.5

CO₂ 0-1,000 to 0-100%

CH₄ 0-5,000 to 0-100%

CO 0-10% to 0-100%

N₂O 0-1,000 ppm

Z purge can be added for Class 1 Div.2 areas

Outputs: 0-1 VDC, RS232, 4-20 mA.

Model 80 GPC/PID Hg in ambient air



Model 80 Hg Analyzer GPC/PID
19"W x 14"D x 11"H

Applications: Mercury ambient air

ppt to ppb

Uses a gold preconcentrator to collect and concentrate the Hg, then thermally decompose the Au/Hg amalgam to provide a specific Hg (IP= 10.4 eV) measurement by PID (10.6 ev Lamp)

	<p>Outputs: 0-10 VDC, RS232, RS485, 4-20 mA</p>
<p>Model 80 UV Hg in Stack Gases</p>  <p>Model 80 Mercury Analyzer</p>	<p>Model 80 UV 19"W x 14"D x 11"H Applications: Mercury in Stack Gases UV absorbance with SO₂ correction</p> <p>Outputs: 0-10 VDC, RS232, RS485, 4-20 mA</p>
<p>Model 204 H₂, He, binary systems</p>  <p>Model 204</p>	<p>Model 204 TCD Z Purge Dimensions: 6.75"W x 6"D x 10 3/8 "H plus Z purge Weight: 14# with Z purge; 7.6 # Analyzer only Useful for Binary gas systems % H₂ in CO₂ %H₂ in N₂ % He in N₂</p> <p>Z purge can be added for Class 1 Div.2 areas Outputs: 0-1 VDC, RS232, 4-20 mA</p>
<p>Model GC301C Specific Analysis of VOC's, S, P, Inert Gases and Inorganics</p>  <p>Model GC301C</p>	<p>Model 301C Process GC 19" Rack Dimensions: 19"W x 14"D x 11"H Weight: 29# Embedded PC with Windows 7.0 Peal works Chromatography SW Detectors: PID, FID, TCD, FPD (S, P), FUV VOC's % ppm, ppb, ppt (with optional concentrator) S, P ppb, ppm) Natural Gas Analysis Stack and Process Gas Analysis, OSHA Compliance</p> <p>Outputs: 0-1 VDC, RS232, 4-20 mA</p>



Model 301-C MP

4 point GC Multipoint
 2-4 point MP
 6- 16 point MP

Available in bench or NEMA 4
 wall mount

GP or Z- purge
 Embedded PC
 Direct internet connection, 4-20
 mA, Modbus, RS232

**Model GC301C Specific Analysis of
 VOC's, S, P, Inert Gases and Inorganics**



Model GC301C NEMA 4

Dimensions: 21"W x 16"D x
 23"H

Weight: 40 #

Embedded PC with Windows 7.0
 Peel works Chromatography SW
 Detectors: PID, FID, TCD, FPD (S,
 P), FUV

VOC's % ppm, ppb, ppt (with
 optional concentrator)

S, P ppb, ppm)

Natural Gas Analysis
 Stack and Process Gas Analysis,
 OSHA Compliance

Z purge can be added for Class 1
 Div.2 areas

Outputs: 0-1 VDC, RS232, 4-20
 mA