

PID Product Lines

PID Analyzers, LLC
Sandwich, MA

PID Analyzers, LC,
Sandwich, MA 02563;
1 774 413 5281;
<http://www.hnu.com>

Portable Analyzers

- ◆ Models: 102, 102+, 107, 108, 113, 114, 115
 - Smart microprocessor based meter
 - LCD meter
 - 1-4 analog inputs
 - 0-1 VDC; RS232
 - Battery operated 8-15 hours
 - 1 channel readout with 2nd line ID
 - Internal data storage 7,000 points

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Portable Analyzers Available

Model	Sensor	Detects	Applications
102	PID	VOC's	IH, Leak Detection, 1 st responders
102+	PID+ ppb IR. CG. TCD 3 EC	VOC's VOC's	IH, Leak Detection, 1 st responders Indoor air quality Indoor CO2, LEL, H2, Select from > 25
107	IR EC	CO2, CH4 SO2, CO, NOx	Stack Gases
108	2 x IR EC	CO2, CH4 O2, H2S	Landfill gases Biogas monitoring
113	CG, TCD 3 EC	LEL, gases, H2 1-3 EC	LEL, H2 leaks Select from >25 EC sensors
114	1 x IR	CO2, CH4 (LEL), N2O	ppm to % CO2 High ppm to % CH4, N2O
115	FID	HC including CH4	Low ppm to 50,000 ppm

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Photos of 102 and 115

102 PID with spare head



115 FID with hydride tank



GC312 Portable GC

GC 312



Features

- ◆ Embedded PC
- ◆ Detectors: PID, FID, FUV, FPD, TCD 1 or 2 detectors
- ◆ Windows 7.0
- ◆ PeakWorks Chromatography software
- ◆ Refillable carrier cylinder lasts for 30 hours
- ◆ Battery lasts for 6-8 hours
- ◆ ppb to % sensitivity- depends on detector

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Continuous Analyzers

- ◆ Model 201 C, 202, 204, 210
- ◆ Smart microprocessor meter
 - Bright LED meter 2 line x 16 character display
 - 1-4 channel analog inputs
 - 1 channel readout at a time
 - Data storage 1
 - Flexible SW

Continuous Analyzers Available



Model	Sensor	Detects	Applications
112	PID	Total VOC's > C ₄ aliphatic	C Bed monitoring, ambient, stack monitoring- ppm
	FID	Total VOC's including CH ₄	
201 C	PID	Total VOC's > C ₄ aliphatic	C Bed monitoring, ambient, stack monitoring-ppm
	FID	Total VOC's including C ₄	
202	IR	CO ₂ , CH ₄ , N ₂ O	CO ₂ in ambient to 100%, LEL CH ₄ , >1000 ppm N ₂ O
204	TCD	For binary systems:	Binary systems where one gas is changing- universal response %
		H ₂ in N ₂ etc	
210	Electrochemical or ZrO ₂	O ₂	O ₂ in process streams or stacks
301 C	Process GC with 1 or 2 detectors: PID, FID, TCD, FPD, FUV	CH ₄ + HC, Fixed gases, Sulfur compounds	Specific analysis of fixed gases, VOC's. some inorganic compounds, S compounds

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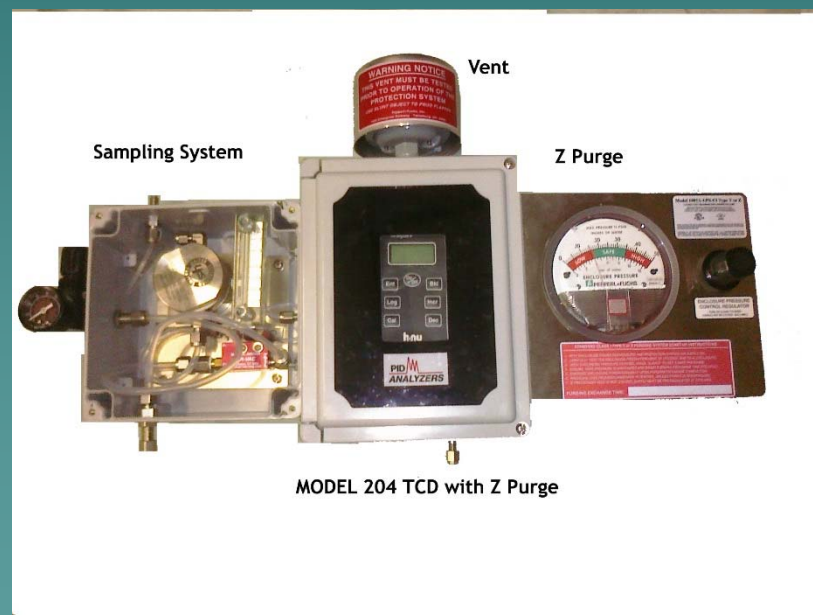
<http://www.hnu.com>

Photos of 201C and 112

Model 201C

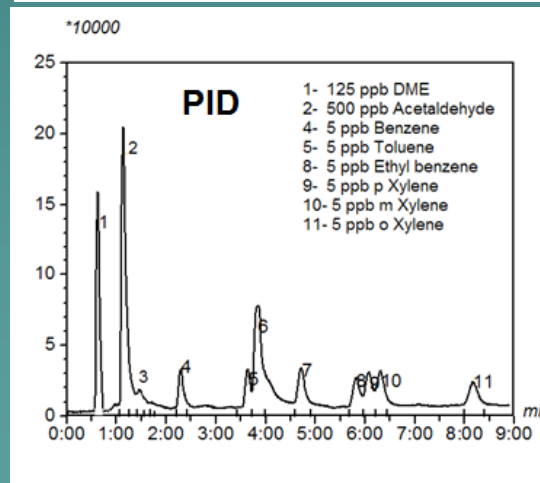
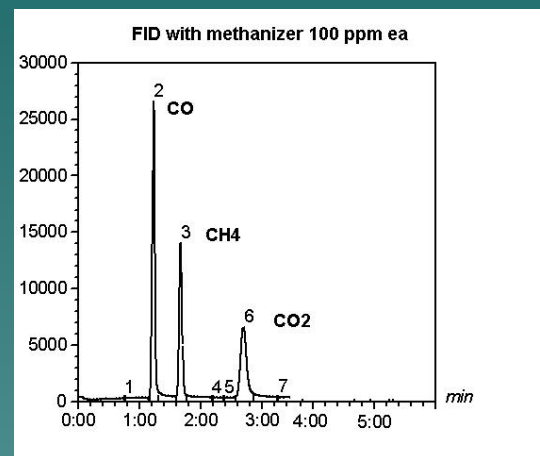


Model 204 TCD



Process GC Analyzer- 301C

Model 301C 19" Rack Mount



Laboratory Analyzers

- ◆ Model PI 52-02 C- Photoionization Detector
- ◆ Model FI-53-01 flame ionization detector
- ◆ Model TC-54-01 thermal conductivity detector
- ◆ Model FUV-55-01 Far UV Detector
- ◆ Model FP-56-01- flame photometric detector

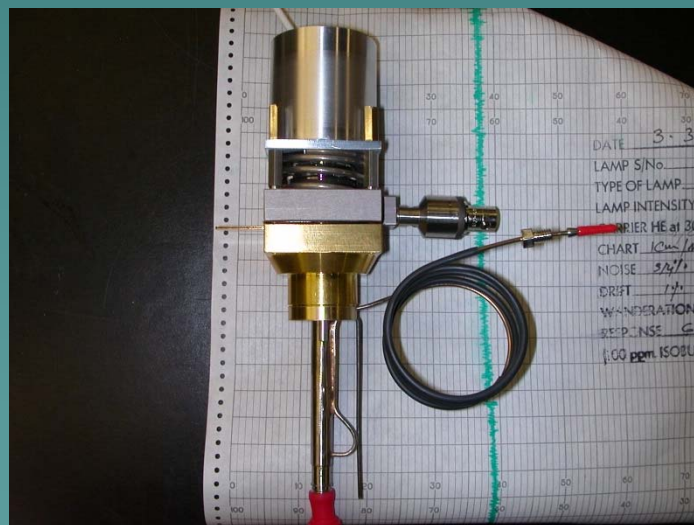
GC Detectors for the Lab

Electrometer for
Detectors

Stand Alone Detectors



- ◆ PID, FID, FUV, FPD, TCD for any GC



GC Detector Response

- ◆ PID- one of the most sensitive detectors available for HC- can be up to 100x more sensitive than the FID- low ppb detection
- ◆ FID- for CH₄ and any hydrocarbon
- ◆ FUV- inorganic + organic compounds at low or sub ppm levels
- ◆ FPD- Selective for S or P compounds
- ◆ TCD- universal detector ppm to %

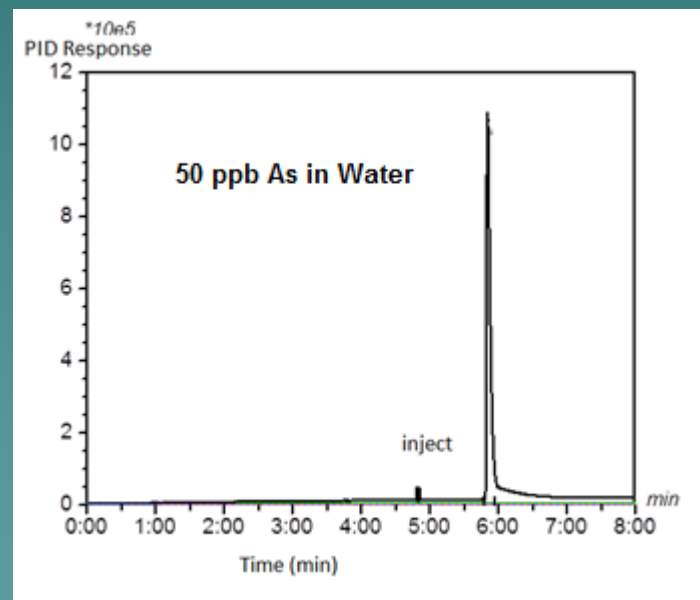
A New Technology for Detection of Inorganic Arsenic in food & Water



Arsenic Analyzer for Food & Water

Hydride Generation/Gas
Chromatography/Photoionization
HG/GC/PID

Model 33 Arsenic Analyzer



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