

# Compact BTU Gas Chromatograph Systems



## Measure BTU for Custody Transfer and Process Control

### AGA STANDARDS

System is accurate per AGA (American Gas Association) standards, yet simple, small footprint, low maintenance, and very cost effective.



### STANDARD FEATURES

- System is delivered ready for easy placement of floor mounted design.
- Supply power, communications, install probes and lines and system are ready to operate.
- All interface is connected externally to the enclosure and pre-wired internally making this system cost effective to own and operate.



The gas chromatograph is recognized as the benchmark for measuring hydrocarbon components, calculating and outputting Btu value. This robust design does not require a walk-in shelter thus reducing cost and footprint, and allows for placement near the sample point to reduce response time. The low volume of gas required to operate makes the system very low to maintain and operate.

Applied Controls Systems Integration supplies the complete self-contained package including heated and non-heated sample probes, sample transport lines, sample conditioning, temperature controls, power supply, power distribution, sample conditioning, analyzer, heated enclosure and communications.

### ADVANTAGES

- Applied Controls has over 75 years of combined experience in Sample Systems for all types of analytical measurements; including Gas Chromatography, moisture, etc.
- We can utilize any manufacturer's equipment that proves to be the best fit technology for the application needs.
- Our Engineering Staff are Sample System experts. We design your analytical systems from Sample Point to Return, covering everything in between.
- Our dedicated Service Engineers ensure our customers receive second to none support for all commissioning and on-demand service needs.

## WHO WE ARE

“Our experience in diverse industries and collaboration with numerous manufacturers allow for application of **best fit solutions**. This expertise drives our design and engineering to achieve the safest, highest performing, lowest cost of ownership, and most robust analytical system solutions.”

## WHAT WE DO

Applied Controls is focused on the total Analyzer System from the sample point to sample return. We can design, engineer, build, start-up, train and service on-line continuous analyzer systems-from wall mounted units to complete shelter houses.

## WHAT WE OFFER

- Environmental/Process Analyzer System Integration
- Analyzer System Engineering
- Sample Conditioning Systems
- Enclosure/Shelters
- F.A.T. Live Streaming
- Start-up/Commissioning/Training
- Field Service and Calibration
- Complete Turnkey Systems

## VALUE-ADDED

- Technical Support
- Installation and Setup
- Maintenance
- Warranty

For more information on any of our products or services please visit us at: [Analyzer-Systems.com](http://Analyzer-Systems.com)



# Technical Specifications

Enclosure Dimensions (with Stand)	40" wide x 58" tall x 30" deep
Weight	Approximately 300 lbs.
Weatherproof Construction	NEMA/Type 4X/IP 57, Fiberglass Insulated
Carrier Gas	Helium/Hydrogen (consumption rate typically <20 cc/minute during analysis cycle)
Analysis Time	Determined by application
Repeatability	Defined by application. Typically $\pm 1\%$ of the measured value
Temperature Range (Storage)	-22F to +140F (-30C to 60C)
Temperature Range (Normal)	-40F to 131F (-40C to 56C)
System Supply Voltage	120VAC, Optional: 24 VDC
Certifications	NEC Class I, Div. 2, Groups B, C and D
Communications Supported	Two serial digital ports. Software selectable for RS-232, RS-485, or RS-422. One USB MMI. USB hub (host and client) and Ethernet ports.
Protocols Supported	OPC, MODBUS ASCII or RTU, MODBUS/TCP Server, MODBUS/TCP Client

