ACCUCHROME SPECIFICATIONS PERFORMANCE

Choose	the AccuChrome GC that's Right for You	ır				
Specific Application Needs						

Accuracy by component	$\pm 0.5\%$ /F.S (range 50) $\pm 1\%$ /F.S (5 <range<50) $\pm 2\%$/F.S(range 5%)</range<50) 	MODEL	ANALYSIS CONFIGURATION	ADD neo- pentane	ADD H ₂ S
Accuracy by heating value Repeatability Sensitivity	+/- 0.25 Btu/scf per 1000 Btu/scf +/- 0.25 Btu/scf per 1000 Btu/scf 200 ppm	AccuChrome C6+	Methane, Ethane, Propane, iso-Butane, n-Butane, iso-Pentane, n-Pentane, Hex- anes Plus, Nitrogen, Carbon Dioxide	0	0
Ambient temperature Dimensions	4 to 5 minutes ENVIRONMENT -20°C to + 60°C (-4°F to 140°F) 686 mm W x 838 mm H x 318 mm D (27" W x 33" H x 12.5" D)	AccuChrome C6+ Plus Oxygen & Carbon Monoxide	Methane, Ethane, Propane, iso-Bu- tane,n-Butane. iso-Pentane, n-Pentane, Hexanes Plus, Oxygen, Nitrogen, Carbon Dioxide, Carbon Monoxide	0	0
Weight Power & consumption Sample flow	Division 1: 54.4 kg (120 lbs) Division 2: 38.6 kg (85 lbs) UTILITIES 24 VDC, 100 watts startup, 50 watts running 90-240 VAC, 50/60 Hz 100 watts startup, 50 watts running 100 cc/min, 1 barg (0,21 SCFH, 15 psig)	AccuChrome C7+	Methane, Ethane, Propane, iso-Butane, n-Butane, iso-Pentane, n-Pentane, Hex- anes. Heptanes Plus, Nitrogen, Carbon Dioxide	0	0
Gas requirements Digital Outputs Digital Inputs	Helium or hydrogen carrier gas 5.5 - 6.9 barg, 20 cc/min (80 - 100 psig, 0.042 scfh) COMMUNICATIONS Modbus RS232, Modbus RS485, Modbus TCP/IP 2 dry contact, 2 wet contact (12/24 VDC)	AccuChrome C7+ Plus Oxygen & Carbon Monoxide	Methane, Ethane, Propane, iso-Butane, n-Butane, iso-Pentane, n-Pentane, Hex- anes, Heptanes Plus, Oxygen, Nitrogen, Carbon Dioxide, Carbon Monoxide	0	0
Analog Inputs Analog Outputs Relays	3 universal inputs, user programmable (RTD, 4-20 mA, transducer) 4 x 4-20 mA, user scalable, user selectable loop or self powered 4 x SPDT relays, 8 amp @250 VAC	AccuChrome for Hydrogen Only	Hydrogen	Not available	Not available

APPROVALS & CERTIFICATIONS

CSA (C, CUS) Class 1 Division 1, Groups BCD CSA (C, CUS) Class 1 Division 2, Groups BCD

and again – they count on our attention to detail, applications know-how, and exacting quality standards. We work with customers to tailor each sysrequirements and to provide unparalleled support through installation, training, and long-term product maintenance. A private company headquar-

About Galvanic

Galvanic Applied Sciences Inc. solves critical process-analysis and measurement problems for customers worldwide with our full line of rugged, fit-for-purpose gas- and liquid-measurement systems. We engineer all of our systems and components to deliver uncompromising accuracy, reliability, and long-term value to users, even in the most-challenging process environments. That's why multinationals and small companies alike turn to us again tem to meet their site-specific process tered in Calgary, AB, Canada, with a facility in Lowell, MA, USA, Galvanic supports a global network of dedicated sales and service engineers, as well as value-added distributors to serve the needs of customers.

GALVANIC APPLIED SCIENCES



AccuChrome[™] GC Btu & Hydrocarbon Analyzer

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Rugged and reliable, the AccuChrome GC analyzer delivers a rapid return on investment

When it comes to gas analysis, the slightest inaccuracy in measurement can have a significant effect on a company's bottom line. So can system downtime. That's why the AccuChrome CG's development team devoted equal attention to optimizing performance in harsh, real-world applications and to simplifying and ruggedizing the design. The result: a highly reliable, low-maintenance analyzer that delivers the utmost in precise measurements and consistent, field-proven performance.

Galvanic's third-generation Btu and hydrocarbon gas chromatograph, the Accu-Chrome analyzer is designed and built for critical process-monitoring and control applications in the harshest environments. Whether you're performing Btu and constituent analysis of natural gas for custody transfer, process optimization during natural gas fractionation, or 40 CFR 60 Subpart JA flare-gas emissions monitoring for regulatory compliance – you need precise, real-time measurements you can count on. With auto calibration and validation capabilities to enable fully hands-off operation and the utmost in ease-of-operation, consistent, field-proven performance – and value, Galvanic's AccuChrome analyzer can help you optimize your processes for better quality and lower costs.

On rare occasions when there is a problem, it's easy to address right then and there – the design enables ready access to all components, each of which are fully field-serviceable – reducing downtime and the need for costly module replacement.

Flexible, headache-free installation & operation

The AccuChrome GC is custom-configured at the factory to integrate seamlessly into your existing infrastructure. Galvanic's expert support team will calibrate one analyzer or dozens to your exact specifications, mimicking sample conditioning and outputs of your current system, as required.

Retire old analyzers individually as necessary, or start an entire new line in the most cost-effective way possible – Galvanic makes it easy to standardize your training protocols, operating procedures, and service processes at all your facilities worldwide.

FEATURES

- Accurate analysis with ±0.25 Btu per SCF
- Rugged field-proven construction & full auto calibration & validation capabilities for full stand-alone operation
- Airless heat sink oven & industry-leading, low-maintenance injection valves
- Thermal-conductivity detector will not burn out with loss of carrier gas and can withstand corrosive H₃S
- Designed for easy serviceability throughout
- Multi-stream capability (up to 8 streams)
- High-resolution local display & user-friendly software
- 32 GB expansion storage capacity & complete audit trail of all results
- Standard or customized reports, including location, technician, & comments

Look Inside ...

Rugged Thermistor-Based Detector

Less susceptible to fouling than micro-machined technology, the AccuChrome GC's thermal-conductivity detector is able to withstand corrosive compounds such as H₃S. Plus, Galvanic's detector will not burn out on loss of carrier gas!

Airless Heat-Sink Oven

An airless heat sink oven maintains a constant temperature of columns, valves, and thermal-conductivity detector for reliable and accurate results. No external air source required!

Auto Calibration & Validation

Calibration and validation is simple on the AccuChrome GC system. Auto validation lets you analyze the calibration standard with-

out adjusting response factors or retention times. The AccuChrome GC supports two calibration standards for enhanced measurement of streams with widely varying hydrocarbon concentrations.

Durable Valves

The chromatograph use industry-leading valves. Tough and long lasting, the valves are rated for up to 1 million injections. Simple mechanical design makes it easy and inexpensive to service.

External-Keypad-Driven Display

An intrinsically safe external keypad provides full menu access for the high-resolution display, enabling at-a-glance status and results. View chromatograms, analysis results, previous calibration information, and alarms on the spot, without opening the enclosure - a feature unique to Galvanic systems





the AccuChrome GC delivers all you need for fast, accurate Btu analysis and remote monitoring



Easy Analyzer Networking & Data Communications

Remote login and troubleshooting is easy via the AccuChrome GC Ethernet connection. The AccuChrome GC will support Ethernet Modbus TCP/IP and up to eight additional serial ports. Select a standard industry-compliant Modbus list, generate customized Modbus lists, or create and access multiple Modbus lists via Scada. You can operate the serial port as either master or slave. The Ethernet port can support up to 16 masters

Intuitive Operator Interface

The AccuChrome GC Windows® software provides a powerful tool for operation, diagnostics and data handling. View and save chromatograms and analysis results, review or modify analysis settings, set up networking, generate reports, and control several other parameters.

Selected Industries & Applications

- Chemical
 - 40 CFR 60 Subpart Ja flare gas emissions monitoring
- Natural Gas Pipeline
 - Custody transfer
- Natural Gas Processing
 - 40 CFR 60 Subpart Ja flare gas emissions monitoring
 - Condensate
 - De-butanizer
 - De-ethanizer
 - De-propanizer
 - NG fractionation
 - NG plant inlet/outlet gas
- Peak shaving
- Oil & Refining / Petrochemical
 - 40 CFR 60 Subpart Ja flare gas emissions monitoring
- Power Generation
 - Gas turbine control (compositional analysis of NG)

Micro-Packed Columns



Galvanic manufactures its columns in house to assure the utmost in quality and consistency. This translates into results you can count on for the lifetime of the chromatograph.





On-Board Data Archiving

The AccuChrome GC has expandable memory capability up to 32 GB to store individual analysis, hourly averages, daily averages and chromatograms. Calibration / validation chromatograms can also be stored for later viewing. complete audit trail is also incorporated.

Fast and Easy Reporting

Produce printable reports of measured and calculated values based on GPA or ISO standards. Customize them to include location, technician name, and comments. The AccuChrome report generator makes it fast and easy.

