

ACCUCHROME™ GAS CHROMATOGRAPH

Btu, H₂ & C₆- C₇ for Total Measurement Certainty



NATURAL GAS PROCESSING AND CUSTODY TRANSFER

PRODUCT OVERVIEW

Standard Analysis

- C6- C7 Hydrocarbon Measurement
- $\leq 50\%$ Hydrogen

Hazardous Area Certified

- Class I Division 2 and Division 1
- ATEX / IECEx Zone 1

Low Maintenance

- Valves rated for 1,000,000 Injections
- Quick & Easy Excursion Recovery

Rapid Response

- 4 Minute Typical Analysis Sequence

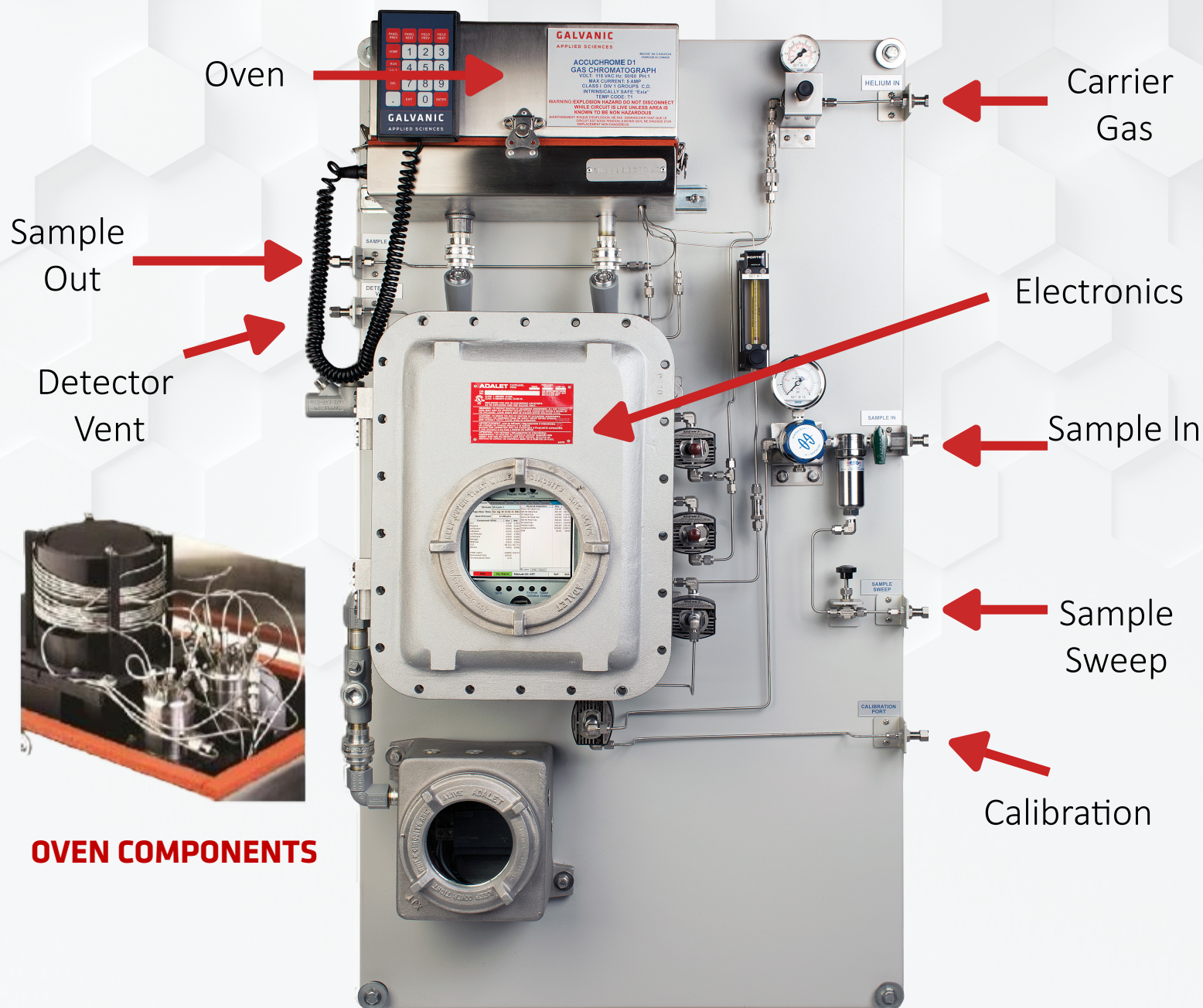
INTRODUCTION

AccuChrome™ is a process analyzer that measures Btu and hydrocarbons in gas-phase samples. AccuChrome™ helps natural gas, refinery, and other industrial operators meet gas quality requirements and optimize process control.

AccuChrome™ uses thermal conductivity detection (TCD) to measure most gas compounds. Monitoring changes in electrical resistance allow AccuChrome™ to calculate the concentration of each parameter.

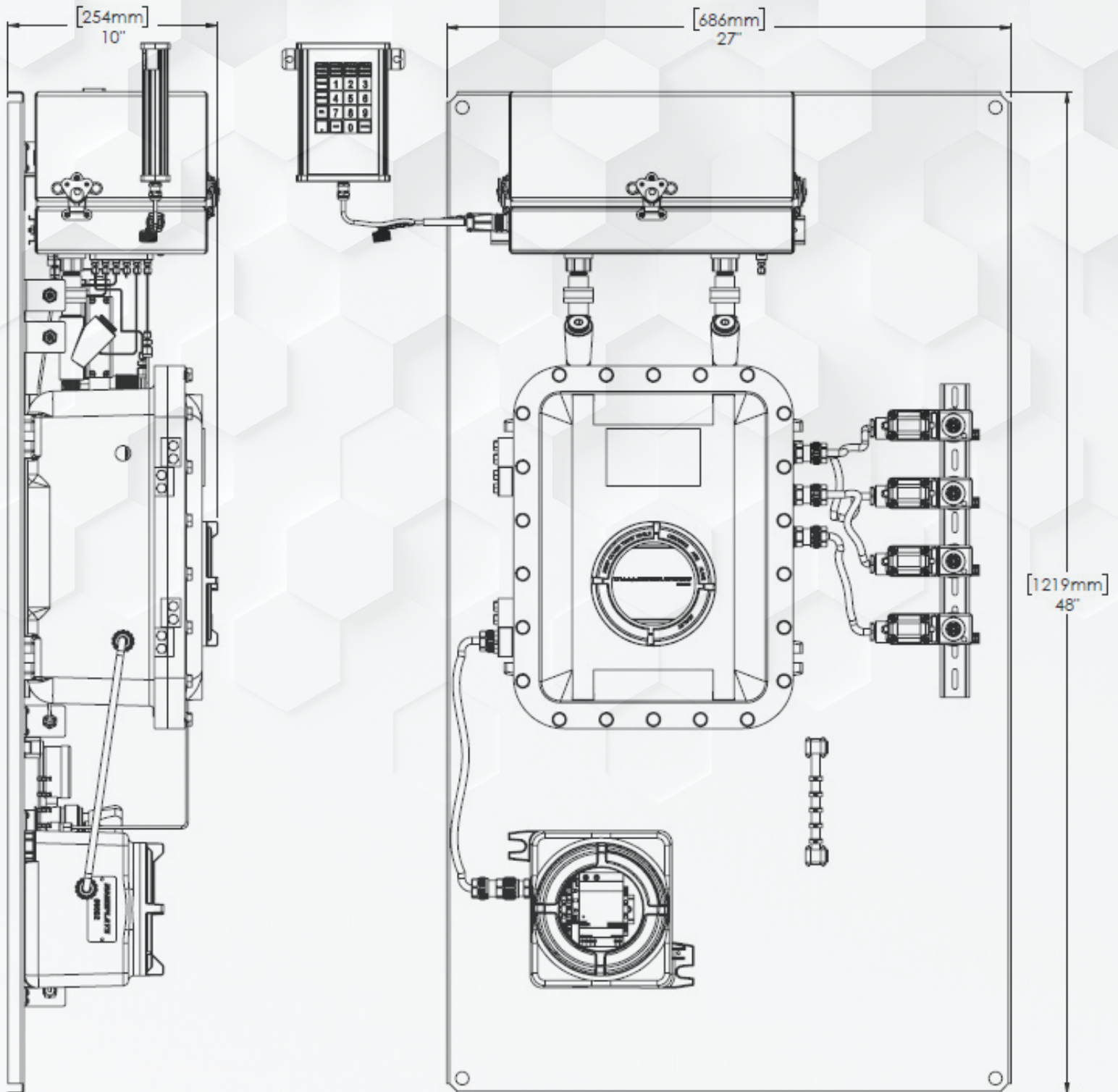
AccuChrome™ is a 3rd-generation GC backed by Galvanic's 40 years of field-proven experience supporting gas processing industries.



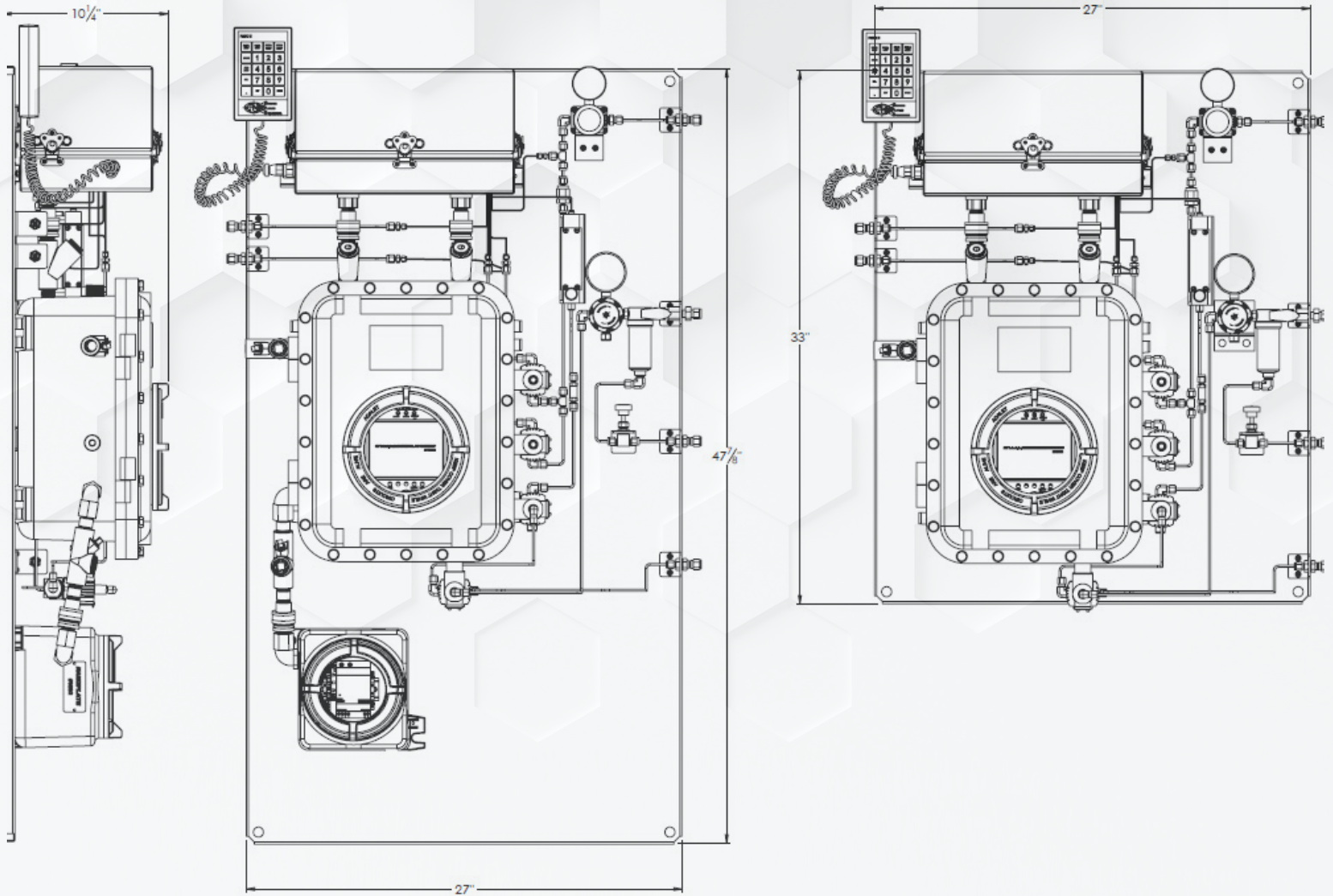


OVEN COMPONENTS

KEY COMPONENTS



ENGINEERING DRAWING FOR ATEX / IECEx ZONE 1 CONFIGURATION



ENGINEERING DRAWING FOR CLASS I DIVISION 1 AND DIVISION 2 CONFIGURATION FOR C7+

Compounds	Btu, Specific Gravity, Wobbe Index, Mole Percent [Oxygen, CO, C6+ - C12+, N2, Methane, CO2, Ethane, H2S, Propane, Iso-Butane, n-Butane, Iso-Pentane, n-Pentane, Neo-Pentane, Hydrogen]		
Sample Handling	Vapor, Vaporizable Liquid, and Liquid Samples		
Accuracy	± 0.25% Btu/scf per 1,000 Btu/scf or ± 0.5% to 2% F.S. [Application-Specific]		
Repeatability	± 0.25% Btu/scf per 1,000 Btu/scf or ± 0.5% to 2% F.S. [Application-Specific]		
Sensitivity	200 ppm ≤ C7+		
Method(s)	Thermal Conductivity Detection (TCD)		
Response Time	4 Minutes [Application-Specific]		
Carrier Gas	Helium or Hydrogen at 4.1 bar, 20 cc/min [60 psi]		
Analog Outputs	4 x 4-20mA Outputs (Loop or Self-Powered)		
Analog Inputs	3 x 4-20mA Inputs [RTD, 4-20mA, Transducer]		
Modbus	TCP/IP, RS232, or RS485		
Digital Outputs	4 x SPDT Relays		
Digital Inputs	4 Discrete Inputs		
Remote GUI	Ethernet Accessible		
Analyzer Display	Color LCD With Extendable Keypad		
Ambient Conditions	-20 to 60°C [-4° to 140°F] with 0 to 95% non-condensing relative humidity		
Dimensions	686 x 838 x 318 mm [27" x 33" x 12.5"] / 838 mm (48") High with VAC Power Supply		
Power	24 VDC or 90 to 240 VAC		
Power Consumption	100 Watts Start-up, 50 Watts Running		
Model	Class I Division 2	Class I Division 1	Class I Zone 1
C9 Capability	No	Yes	No
Enclosure Material	Stainless Steel	Cast Aluminum	Cast Aluminum
Enclosure Rating	Type 4/4x, IP66	Type 4	
Enclosure Weight	38.6 kg. [85 lbs.]	54.4 kg [120 lbs.]	54.4 kg [120 lbs.]
Area Classification	Class I Div. 2 Groups BCD T3 Measurement Canada	Class I Div. 1 Groups BCD T3 Measurement Canada	II 2 G Ex db [ia Ga] IIB +H2 T3 Gb T _{amb} -20 ≤ Ta ≤ 60C

