

# ROSEMOUNT™ 470XA GAS CHROMATOGRAPH

Compact with full performance  
for dedicated applications

## Rosemount 470XA Gas Chromatograph

The Rosemount™ 470XA Gas Chromatograph (GC) is a compact, economical and reliable solution designed to simplify natural gas analysis in fiscal and custody transfer applications. It provides accurate C6+ BTU/CV measurement that is fully traceable to international standards and doesn't require a shelter for most environments, lowering total cost of ownership. With an oven design based on the industry-proven Rosemount™ 770XA Gas Chromatograph, it offers flexible gas path configurations suitable for applications in renewable natural gas/biomethane and hydrogen markets such as LNG Boil-off gas, C2+/C3+BTU and H<sub>2</sub> in natural gas.



## Value Driven Benefits

1. Full color LCD local operator interface with easy-to-use software assistants reduce the need for specialized training by guiding operators through common operational and maintenance functions, such as module replacement, changing calibration gas and auto-valve timing
2. Isothermal airless heat sink oven with flexible gas path configurations enables applications beyond C6+ BTU analysis
3. No shelter is required for most environments, reducing installation costs. Optional enclosure available for extreme environments
4. Reduced calibration gas usage with the Cal-Gas Saver™ automatic validation routine delivers cost savings on carrier gas
5. Low power consumption of 55 Watts with 24V DC line power at startup and less than 25 Watts in the steady-state mode reduces operating costs
6. A fully serviceable Maintainable Module combines all critical functional parts in one assembly, allowing quick and easy field replacement or repair
7. Offers the option to use hydrogen or helium carrier gas, and air, nitrogen or helium actuation gas to optimize gas selection and costs
8. Simple, easy-to-use front panel LOI allows local access and control of the GC. Remote access is enabled through industry-leading MON2020 software, offering performance diagnostics, setup, calibration, analysis results and chromatograms

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*A compact economical, and reliable solution for natural gas applications*

## Specifications

### Industry Compliance:

- International Organization for Standardization (ISO) 6976
- American Gas Association (AGA) 8
- Gas Processors Association (GPA) 2172 (using the GPA 2145 physical properties table)

### Certifications/Approvals:

#### CSA:

- Class I, Zone 1, Ex/AEx d IIB + H2, T6, IP65
- Class I, Division 1, Groups B, C, D, T6, Enclosure Type 4X

#### ATEX/IECEX:

- Ex d IIB + H2 T6, Gb
- Ta = -20 °C to 60 °C

### Repeatability:

Controlled Environment:

- $\pm 0.0125\%$  Calorific Value
- ( $\pm 0.125$  BTU/scf per 1000 BTU/scf)

-20 to 60 °C (-4 to 140 °F):

- $\pm 0.025\%$  Calorific Value
- ( $\pm 0.25$  BTU/scf per 1000 BTU/scf)

**Sensor Type:** Single Thermal Conductivity Detector

**Ambient Temperature Range:** -20 ° to 60 °C (-4 ° to 140 °F)

### Power Supply:

- 24 V DC at the unit (21–30 VDC)
- < 55 Watts (Startup)
- < 25 Watts (Steady State)

**Mounting:** Pole (4"), wall or bench mount

**Dimensions:** 460 mm H x 396 mm W x 280 mm D  
(18" H x 16" W x 11" D)

**Weight:** 22 kg (50 lbs.)

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