Rosemount™ 370XA Enclosure for Natural Gas Applications

Natural Gas Chromatographs are often used in isolated locations for custody transfer applications. This can leave the gas chromatograph vulnerable to tampering and the gas canisters susceptible to theft. In addition to isolated locations, the gas chromatograph and its sampling handling system can be exposed to extreme environmental conditions. These conditions may allow the gas in the sample system to fall below the Hydrocarbon Dew Point of the gas, causing liquid fallout and inaccurate flow measurements.

An insulated clamshell enclosure for the gas chromatograph and a small calibration gas cylinder provides protection from intrusion from unauthorized third parties and theft with its lead-seal feature. An optional heater ensures an ambient environment of 68 °F (20 °C) when outside temperatures drop to -4 °F (-20 °C), keeping the gas above its Hydrocarbon Dew Point.

Features
The enclosure meets CSA Class I, Division 1 certification and is easy to use. The enclosure comes with the gas chromatograph prewired to an external Class I, Division 1 junction box, reducing the complexity of installation and saving you time and costs.

Designed for Extreme Environments
- UV, sea-water and fungi resistance
- Ability to lock and lead-seal the enclosure to prevent unauthorized third party access

Reduced Installation Costs
- Small, composite clamshell replaces the need for a conventional single room or dual room analyzer building that is cost prohibitive for lower volume applications
- Enclosure enables locating the Rosemount 370XA Gas Chromatograph close to the sample point, shortening the heated sample lines
- Internal tubing and wiring plumbed and connected to the Rosemount 370XA Gas Chromatograph before arriving in the field for easier and quicker field installation

Ease of Use
- No need to remove the Rosemount 370XA Gas Chromatograph from the enclosure to perform routine maintenance as the enclosure is designed with sufficient space and big hands in mind
- Enclosure’s clamshell lid with stainless steel lid stays and spring loaded retainer chains is easy to lift yet will not close accidentally for increased safety
- Heat-trace boot entry tubing for sample gas ensures thermal stability to keep the gas sufficiently above its Hydrocarbon Dew Point of the gases to avoid liquid fallout
Optional Accessories

Sample Probe Regulator
2-4-5000-610 (4") - Genie® Probe Regulator with HSNG/GAG/RLF, ¾" NPT, 4"
2-4-5000-617 (7") - Genie® Probe Regulator with HSNG/GAG/RLF, ¾" NPT, 7"
2-3-5000-702 - Genie® Drive Probe with HSNG/GAG/RLF, ¾" NPT, Adjustable Length

Carrier Gas & Calibration Gas Accessories
2-3-5000-050 - Carrier Manifold (Allows for cylinder replacement without GC interruption)
2-4-9500-078 - Regulator, for Carrier cylinder, with CGA 580 fittings, Dual Stage for High Purity gases
2-4-9500-077 - Regulator, for Calibration Gas, CGA-510 fittings (Natural Gas)
2-9-0020-945 - C6+ Calibration gas in LP5 cylinder
2-9-9020-779 - Calibration Heater Blanket, 50 W, Class I, Div.1, Groups C, D (15 x 42)

Part Number Ordering Matrix
Your part number is determined by your specific needs. Choose options below


- Mounting Option
  - F – Frame
  - Bottle Racks
    - NON – None
    - CAR – Rack for 2 x Carrier gas cylinder
  - Calibration Gas Option
    - INT – Mounting for internal LP5 Calibration gas cylinder
    - EXT – Bulkhead connection for external Calibration gas cylinder
- No. of Streams (SCS needs to be ordered separately)
  - 1G - 1 Stream Plate
  - 2G - 2 Stream Plate
  - 3G - 3 Stream Plate
- Heater Option
  - E1 – Electric heater, 120 VAC, T3 Class
  - E2 – Electric heater, 230 VAC, T3 Class
  - N1 – No heater
- Approval
  - CSA – CSA and CSAus, Class I, Division 1
  - GEN – No Hazardous Area rating on cabinet, Constructed with C1D1 components

*GC needs to be ordered as Wall Mount. Sample conditioning system for the Rosemount 370XA GC must also be ordered.
Specifications

Please consult Rosemount if your requirements are outside the specifications listed. Improved performance, alternate products and material offerings may be available depending on the application.

Construction

Environmental Temperature:
-4 °F to +140 °F (-20 °C to +60 °C)

Protection Rating:
External Junction Box: NEMA 4X

Area Safety Certification Options:
GEN: No Hazardous Rating, C1D1 components
CSA: CSA and CSAus Class I, Division 1

Optional Heater:
Electric, 120 VAC or 230 VAC, 300 W, T3

Total Weight (Excludes Calibration Gas Cylinder)
300 lbs (136 Kg)

Material:
Enclosure: Hot-pressed glass fiber reinforced polyester
Frame: Polyester-epoxy coated, 12 gauge low-carbon steel

Dimensions:
Enclosure: 24" H x 52" W x 24" D
(609 mm H x 1320.8 mm W x 609 mm D)
Overall (with lid open): 84" H x 58" W x 35" D
(2142 mm H x 1479 mm x 889 mm D)

Mounting: Frame

Dimensions