

TRANSPORTABLE GAS CHROMATOGRAPH

Model ~ 4200 zNOSE®

FEATURES:

- DETECTS HYDROCARBONS – C4 TO C25
- TRANSPORTABLE
- QUANTITATIVE
- QUALITATIVE ANALYSIS
- EXCEPTIONAL SENSITIVITY
- ANALYZE VAPORS IN 30 SECONDS
- INTERNAL SAMPLE PUMP
- BLUETOOTH OR RS-232 USER SETTABLE
- DISPLAY ON LAPTOP
- AC POWER



APPLICATION:

The 4200 zNOSE® Vapor detector and analyzer identify the vapors as low as parts-per-billion concentrations.

A proprietary Surface Acoustic Wave (SAW) detector results in a system with previously unattainable sensitivity in a portable low-cost package.

DESCRIPTION:

- Carrier Gas: Helium, HP 12-24 hours depending on use
- Analysis Time: 5 – 60 Seconds / 30 seconds min
- Display: Windows any version

Utilizing a trap and helium carrier gas, the Model 4200 injects samples into a heated column and separation takes place. Materials sequentially exit the column and are deposited on the SAW detector. The deposit results in a change in the oscillating frequency of the resonator directly proportional to the mass.



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Divisions of



US NUCLEAR CORP

TRANSPORTABLE GAS CHROMATOGRAPH

Model ~ 4200 zNOSE®

SPECIFICATIONS:

DETECTOR: Surface Acoustic Wave (SAW) Quartz microbalance
Dynamic Range: 2×10^4
Temperature: 0° C to 125° C, programmable
Detects: C4 to C25
Sensitivity: Parts per billion for many compounds in 10 seconds
Sensitivity will vary by compound sampling time, matrix, interferences & detector temperature ranges.
Accuracy: <2% standard deviation
Dynamic Range: $10^6 \pm 10\%$

SAMPLING:

Sample Pump: Internal
Sample Introduction: ~.5 ml/sec
Sample Time: 1-300 seconds, User Settable
Sample Absorption: Into internal tenax preconcentrator
Carrier Gas: Helium, (Min 99.999% purity, #6)
Typical use is 300 tests per day on one helium charge

COLUMN:

Limits: 35°C to 200°C -depending on column
Ramping: Isothermal or ramped from 1 – 18° C/sec
Temperature: Isothermal Operation: 40°C to 180 or 5°C above ambient (Whichever is higher)

ENVIRONMENT:

Operating Temperature: 32°F to 105° (0°C to 40°C)
Relative Humidity: 0 – 95% non-condensing
Power: 120 – 240 VAC at 250 watts MAX (50 watts typical)

WEIGHT & DIMENSIONS:

SAMPLER:

Weight: 5.7 lbs (2.6 kg)
Length: 12.5 in (31.8 cm)
Width: 4.3 in (10.9 cm)
Height: 6.8 in (17.3 cm)

CHASSIS:

Weight: 20 lbs (9.1 kg)
Depth: 12 in (30 cm)
Width: 10 in (25 cm)
Height: 6 in (15 cm)

INLET CONNECTION / TEMPERATURE

Inlet Port: Stainless steel LUER
Temperature: 50°C to 200°C

SYSTEM CONTROLLER SOFTWARE:

Intel Pentium 100 MHz or better processor, MIN: 16MB RAM, 1GB Hard Driver with Windows (any version)



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