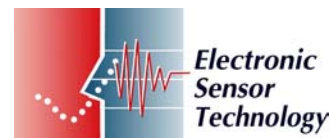


# Model 7100

## Fast GC Analyzer



EST Part No. SYS7100C5 (DB-5 Column), SYS7100C6 (DB-624 Column)

### Benchtop Gas Chromatograph

#### What is it?

The Vapor detector and analyzer identify the vapors as low as parts-per-trillion concentrations and amounts less than 50 picograms. A proprietary Surface Acoustic Wave (SAW) detector results in a system with previously unattainable sensitivity in a portable low-cost package.



#### How does it work?

Two operator levels can be displayed: a complete chromatogram, VaporPrint® Pattern or a simple bar graph display with alarm indications. On-line help makes the 7100 easy to learn and use.

### Specifications

#### Analysis Time

- 10 – 60 seconds

#### Precision and Accuracy

- Standard Deviation <2%

#### Sensitivity

- Can analyze vapors in 10 seconds with sensitivity in parts-per-billion for many compounds
- Detects hydrocarbons in the range of C4 – C25. Sensitivity will vary by compound sampling time, matrix, interferences and detector temperature settings.

#### Dynamic Range

- $10^6 \pm 10\%$

#### Sampling

- Internal Sample Pump
- Sample Introduction: ~.5 ml/second
- Time programmable from 1-300 seconds

#### Dimensions

- Weight 30 lbs 13.6 kg
- Depth 14.3 in 36.3 cm
- Width 14.3 in 36.3 cm
- Height 7.5 in 19 cm

#### Environmental Conditions

- Operating Temperature Range: 32° F to 105° F (0° C to 40° C)
- Relative Humidity: 0 – 95% non-condensing

#### Power

- 120 - 240 VAC at 250 watts MAX (50 watts typical)

#### Carrier Gas

- Helium, HP – 12-24 hours depending on usage

#### Column Limits

- 35° C to 200° C – depending on column

#### Column Ramping

- Isothermal or ramped from 1 – 18° C/second

#### Detector

- Surface Acoustic Wave (SAW) Quartz microbalance
- Dynamic Range:  $2 \times 10^4$
- Temperature: 0° C to 125° C, programmable

#### Inlet Connection / Temperature

- Stainless steel LUER inlet port
- 50° C to 200° C

#### System Controller Software

*Notebook Controller configured and integrated with the following:*

- Laptop Computer with Windows Operating System (English Version)